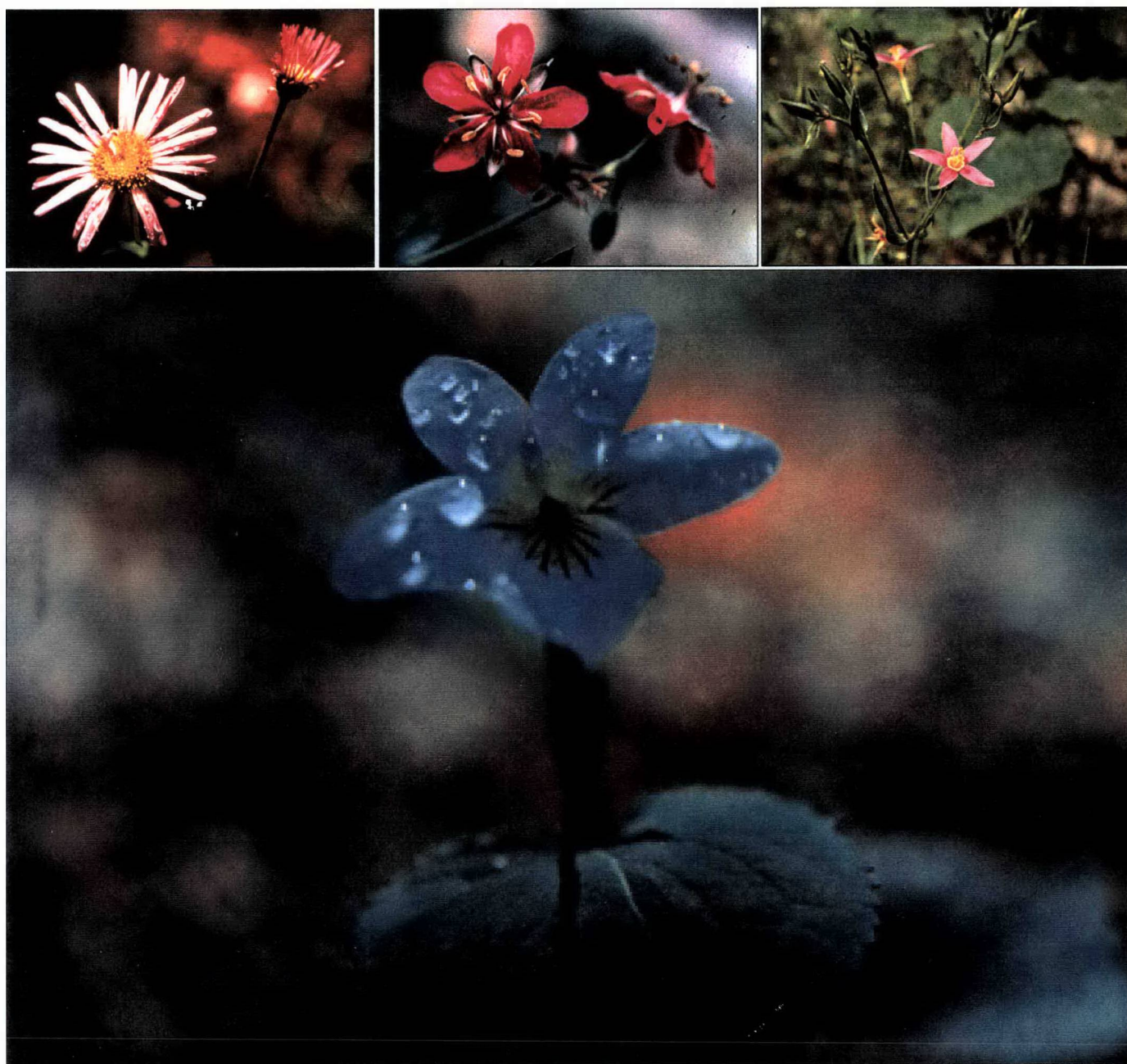


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*Annotated Checklist and Database for  
Vascular Plants of the Jemez Mountains*



**Los Alamos**

NATIONAL LABORATORY

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L. Kim Nguyen Gunderson, for ESH-20*

*Cover: Examples of local flora. Clockwise from top left: aster,  
James geranium, centuarium, and Canadian violet.*

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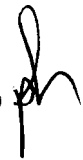
*Annotated Checklist and Database for  
Vascular Plants of the Jemez Mountains*

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*Leland Pierce*

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# **Annotated Checklist and Database for Vascular Plants of the Jemez Mountains**

*Teralene S. Foxx, Leland Pierce, Gail D. Tierney, and Leslie A. Hansen*

## **Abstract**

Studies done in the last 40 years have provided information to construct a checklist of plants of the Jemez Mountains. The present database and checklist builds on the basic list compiled by Teralene Foxx and Gail Tierney in the early 1980s. The checklist is annotated with taxonomic information, geographic and biological information, economic uses, wildlife cover, revegetation potential, and ethnographic uses. There are nearly 1000 species that have been noted for the Jemez Mountains. This list is cross-referenced with the US Department of Agriculture Natural Resource Conservation Service PLANTS database species names and acronyms. All information will soon be available on a Web Page.

## **1.0 About the Checklist**

In 1984, a list of species for the Jemez Mountains was constructed using survey data from information gathered by Foxx and/or Tierney (Foxx 1982; Tierney 1977; Tierney 1979; Foxx and Tierney 1980, 1982, 1984; Tierney and Foxx 1982; Foxx and Potter 1978; Potter and Foxx 1979, 1981, Potter, Foxx, and Barnes 1983) supplemented by information about collections from master's theses by Housley (1974), Koehler (1974), Osborne (1966), Robertson (1968), and Yarnell (1958) (section 5.3 of the reference list). The original survey included a literature survey of collections by private industry (Pilz et al. 1979, Whitford and Ludwig 1979; section 5.2 of references), the National Park Service studies (Potter 1981), and habitat typing studies (Barnes 1982, Moir and Ludwig 1979). Additionally, unpublished information concerning collections made by Los Alamos National Laboratory (LANL) staff (Miera 1976) and research at Bandelier National Monument was included.

This report provides a single listing of all collections from the Jemez Mountains, including the Pajarito Plateau, Sierra del los Valles, Valles Caldera, and portions of the Jemez west of the caldera. The floristic studies were conducted within an area bound

on the south by Cochiti Canyon, on the north by Garcia Canyon, on the east by the Rio Grande, and on the west by the Jemez River (Figure 1).

Studies prior to 1985 provided the baseline information incorporated into the original checklist. Since 1985, a number of studies have been conducted at LANL, Bandelier National Monument, and within the National Forest. Each study has added to our knowledge of the presence and distribution of the species. Studies are noted in sections 5.2, 5.3, and 5.4 of the reference list. Of note are studies by Allen (1984, 1989), Jacobs (1989), and Foxx and Hoard (1984, 1995).

In 1994, we began to update and annotate the checklist with further information. Most additional information came from the *Plant Information Network: Database* the publication by Dittberner and Olson (1983). Although this publication references Colorado, Montana, Wyoming, Utah, and Arizona, we believe most of the information is pertinent to New Mexico. This publication provides specific information as to the biological, ecological, and human environment as related to plant species. In addition to this publication we have researched information from the references

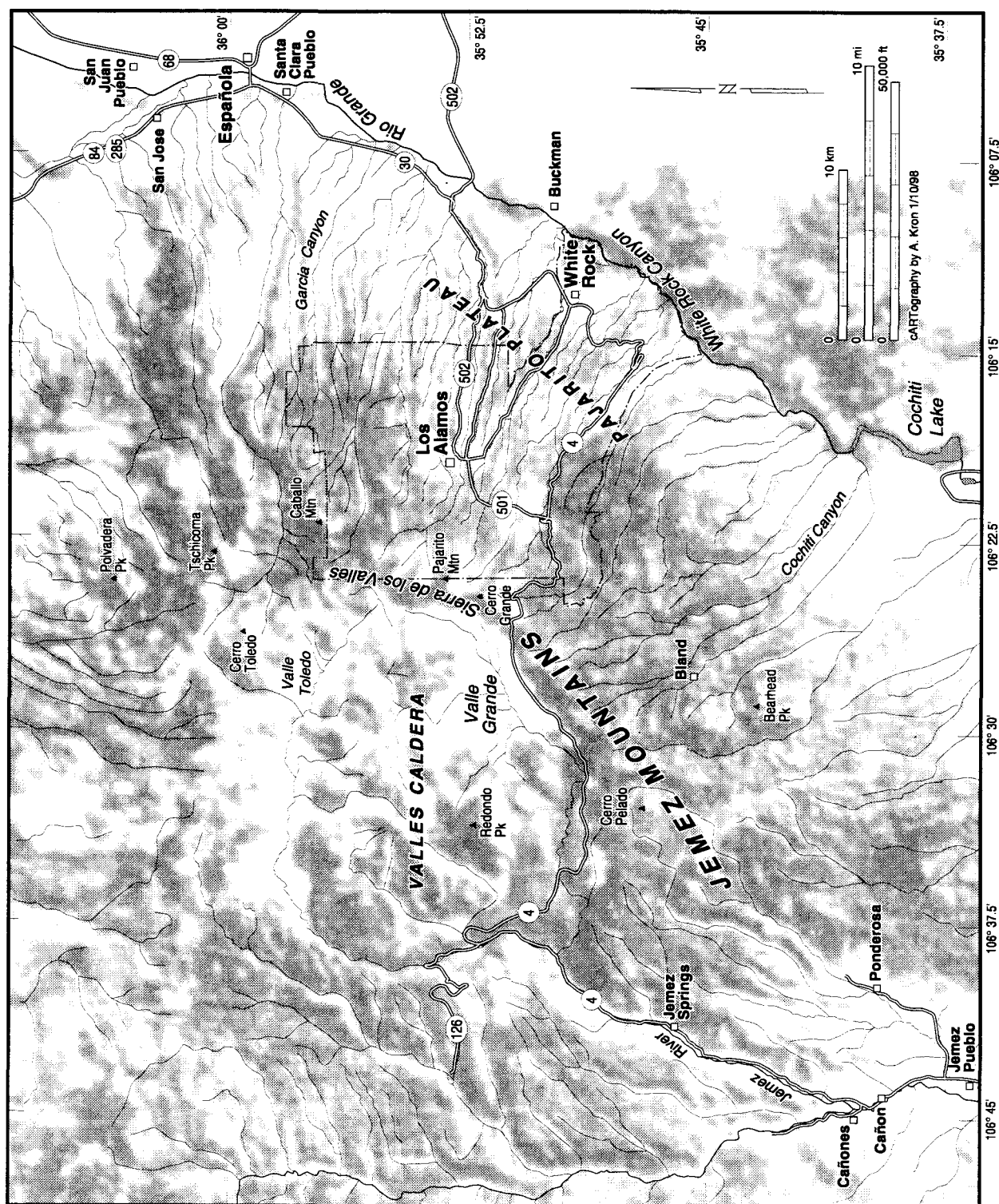


Figure 1. The area of study defined by Garcia Canyon to the north, Cochiti Canyon to the south, the Rio Grande to the east, and the Jemez River to the west.

that can be found in sections 5.6 and 5.7 of the reference list. To determine potential use of plants by various cultures in the area, we searched ethnobotanies and ethnographic literature for plant usage. The references used are under Ethnographic Literature in section 5.7 of the reference list. Wetland information was based on the *National List of Plant Species That Occur in Wetlands: New Mexico* (Reed 1988a). Wetland references are found in section 5.5 of the reference list.

Each species was then searched in one of several floras including the following: Martin and Hutchins (1981), McDougall (1973), Benson (1977), Hitchcock (1971), Kearney and Peebles (1969), Correll and Johnston (1970), Harrington (1970), Gould (1977), Dittmer et al. (1954), and Allred (1982). Other botanical publications that provided information for the checklist are in section 5.2 of the reference list. Synonyms, habitat, habit, and blooming times were noted. In cases of conflicting information, *A Flora of New Mexico* by Martin and Hutchins (1980), the most recent and comprehensive text for the area, was used for the final authority on habitat, habit, and blooming times. Scientific names (nomenclature) found in the current Natural Resource Conservation Service (NRCS) PLANTS database was used for a national standard or provides accurate translators to names as a cross-walk. PLANTS is a component of the evolving Interagency Taxonomic Information System (ITIS). The most current copy was obtained from the internet (<http://www.plants.usda.gov/plants>).

## **2.0 Description of the Area**

### **2.1 Geographic and Geologic Setting**

The Jemez Mountains are located in north-central New Mexico (Figure 2) and rise as a large volcanic landmass at the southern end of the Rocky Mountains. The mountains are a remnant of a massive volcano that erupted 1.4 to 1.1 million years ago. They lie astride the

western fault margin of the Rio Grande rift, an 800-km-long (480 mi) intracontinental rift zone that extends southward from southern Colorado through New Mexico. Ash from the eruptions laid down 300 m (985 ft) of welded and nonwelded tuff on the eastern flanks called the Pajarito Plateau and on the western flanks, the Jemez Plateau. LANL is located on the Pajarito Plateau, which is dissected into a series of east- to southeast-trending narrow mesas, separated by deeply incised canyons (Burton 1982, Allen 1989).

The prominent landforms of the Jemez Mountains include two central calderas (Valle Grande and Valle Toledo), domes within the calderas, and the mountainous remnants of the collapsed volcano (the Sierra del los Valles), eastern and western plateaus skirting the mountain (Pajarito and Jemez Plateaus), and White Rock Canyon through which the Rio Grande flows. The rim of the volcano has nine peaks including Cerro Grande, Pajarito Mountain, Tschicoma Peak, and Caballo Mountain. The tops of the mountains range from 2895 m (9500 ft) to over 3353 m (11,000 ft) in elevation. The highest peak being Tschicoma at 3526 m (11,636 ft) (Burton 1982, Allen 1989) (Figure 1).

Los Alamos County lies on the eastern flanks of the Jemez Mountains. Land ownership within the county includes LANL, which comprises 43 square miles (11,218 ha), the communities of Los Alamos and White Rock, and Santa Fe National Forest. The remainder of the Jemez area is within Sandoval County. Land ownership includes lands of the Santa Fe National Forest and private holdings such as the Baca Location.

The Pajarito Plateau is dissected into canyons and mesas. Only the upper reaches of the canyons have permanent water sources. Streams such as Frijoles Creek within Bandelier National Monument are perennial. However, most streams are ephemeral,

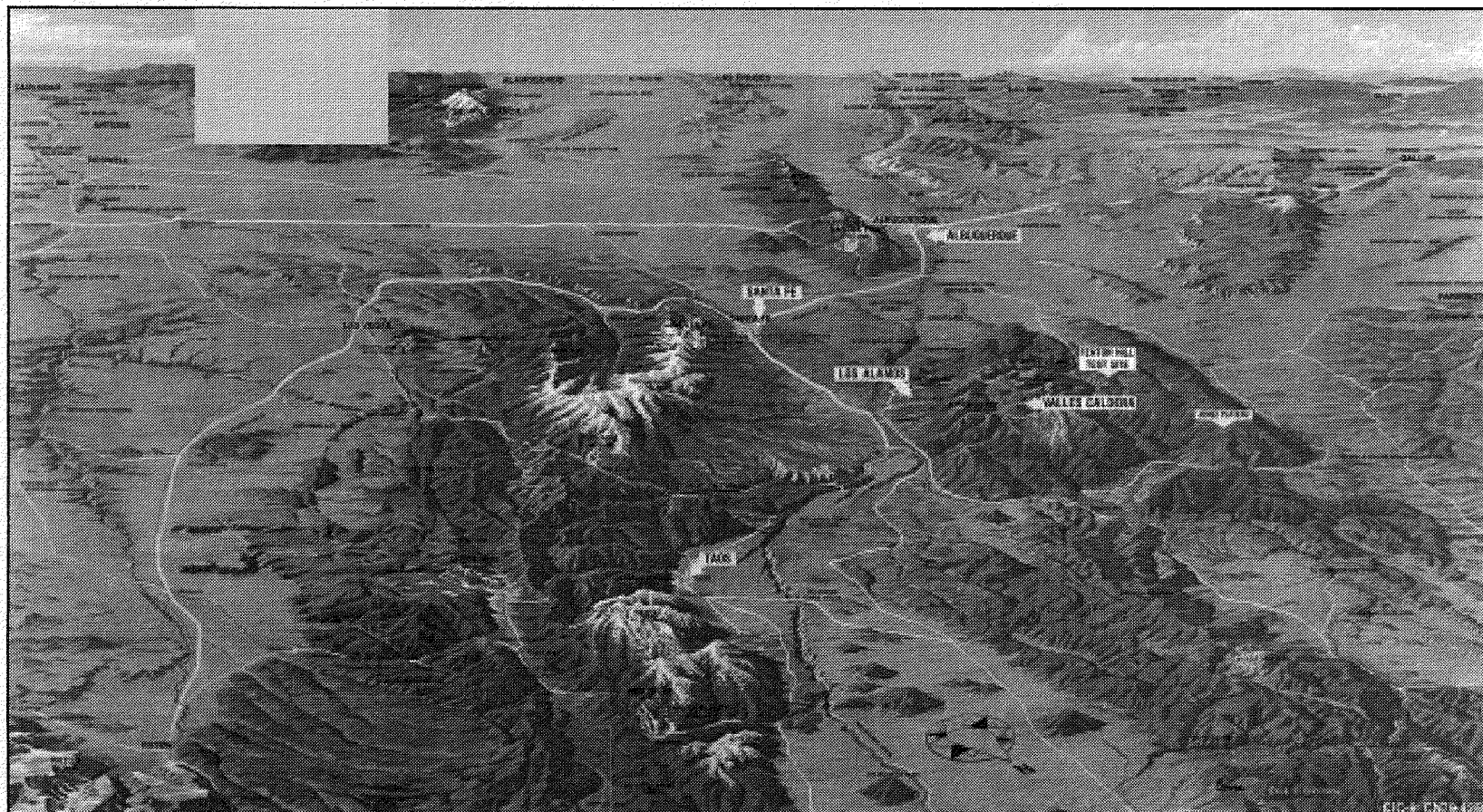


Figure 2. Location of the Jemez Mountains in north-central New Mexico.



flowing during spring snowmelt and during heavy rainstorms in the summer months. Springs and seeps can be found in the upper canyons and White Rock Canyon. Within the caldera and flowing through the mountains is the Jemez River. These water-rich areas in an otherwise semiarid environment often have a different and specific flora. Species such as helleborine orchid (*Epipactis gigantea*) are species of concern, or others such as the cardinal lobelia (*Lobelia cardinalis*) are of local concern.

## **2.2 Climate**

The area has a temperate mountain climate with four distinct seasons. Springs are dry and windy; summers, warm and often dry in June followed by a rainy season in July and August. July is the warmest month with an average daily high of 27.2 °C (81 °F) and an average daily low of 12.8 °C (55 °F). January is the coldest month with temperature ranges of a daily high of 4.4 °C (40 °F) to a low of -8.3 °C (17 °F). There is solar heating during the day and rapid radiant cooling at night. The average annual precipitation is 17.6 cm (18.7 in.). Lower elevations near the Rio Grande receive 13 cm (5.1 in.) less and the higher elevations may receive 13 cm (5.1 in.) more. The peak rainfall months are July and August. Most of the winter precipitation falls as snow with an average of 150 cm (59 in.). (Bowen 1990, 1992, Environmental Surveillance Report 1994).

## **2.3 Vegetation Cover and Community Types**

Mapping and classification of the Jemez Mountains has been done by the US Forest Service for the Santa Fe National Forest (Moir 1979), by Allen (1989) for Bandelier National Monument, and by Koch et al. (1996), Foxx et al. (1996), and Balice et al. (1997) for Los Alamos County. The major cover classes include Mixed Conifer, Ponderosa Pine, Aspen, Pinon-Juniper woodlands, Juniper woodlands, Grasslands, and Shrublands. Within canyons and along streams there are

riparian zones and wetlands, both forested and emergent, with small and unique habitats such as felsenmeers and springs.

## **3.0 Checklist Arrangement**

As a database this checklist can be sorted by various attributes. Each category is an Excel 5 spreadsheet with specific fields and information (Appendix A).

In this section we describe the categories and the attributes of each category.

### **3.1 Family**

This list is sorted by family name. The family names all correspond with the NRCS PLANTS database. Old names such as “Compositae” are now updated to the more recently used name “Asteraceae.”

#### **3.1.1 Family Name**

All species within the list are sorted into families. Family names are after the NRCS PLANTS database and all end in aceae.

#### **3.1.2 USDA Symbol**

This acronym is used in the USDA NRCS PLANTS database for fast field recording. The database includes the standard first two letters for species name and first two letters of the species designation. Additionally, because there may be duplicate acronyms, the USDA PLANTS lists a number behind the letters. This system also adds letters for the subspecies or varieties.

#### **3.1.3 Species Name: Martin and Hutchins**

The names in this column are after our previous authority, Martin and Hutchins (1980). This book still remains as the major taxonomy for the state. However, NRCS PLANTS will be the basis for the nationwide flora, it is generally used by the New Mexico Natural Heritage Program and other state and regional programs. We have determined to begin using NRCS PLANTS for nomenclature questions as the final authority.

### 3.1.4 Species Name: NRCS PLANTS

The NRCS PLANTS taxonomy will be the standard for ESH-20. The NRCS PLANTS name is part of the ITIS and is the taxonomy used in this national standard. These names may or may not correspond to the information in *Flora of New Mexico* and older texts. To reduce confusion about synonymy, the NRCS name is found in the third column with the Martin and Hutchins taxonomic name in the fourth column. Over the past 18 years since Martin and Hutchins was published, over 300 names have been changed. To reduce the confusion of the differences in taxonomy, both names are given in the database. This allows the name to be cross-walked to the information in the present text delineating New Mexico flora.

## 3.2 Nomenclature

Species names are denoted by a generic name and a species designation. In some cases varieties or subspecies may be included.

### 3.2.1 USDA Symbol

We have included the USDA symbol for the plants found in the Jemez Mountains. The standard protocol is to use the first 2 letters of the species name and the first 2 letters of the species designation. To standardize these acronyms we have used the NRCS designations.

### 3.2.2 Species Name: NRCS PLANTS

The NRCS PLANTS name or synonymy is included in a separate field. The NRCS name is part of the ITIS and is the taxonomy used in this national standard. It may or may not correspond to the information in *Flora of New Mexico* and older texts. To reduce confusion about synonymy, we have included the NRCS name in a separate field. This allows the name to be cross-walked to the information in the present text delineating New Mexico flora.

### 3.2.3 Martin and Hutchins (1980)

These are the species names as they appear in Martin and Hutchins (1980).

### 3.2.4 Synonyms Found in Reference

These are a series of alternate scientific names for various plants. Depending on the text, they may or may not still be in common usage. Synonyms given by Harrington (1954), Martin and Hutchins (1980), and Allred (1982) are included. No attempt has been made to determine validity of the synonyms.

## 3.3 Common Names

The common name of the plant represents one or more names commonly found in botanical texts for the area. Common names may differ from source to source and region to region. Therefore, we have included as many common names as was reasonable. Many references in section 5.1 of the reference list have been searched for common names (column 5). We have also included the NRCS PLANTS common names (column 4).

## 3.4 Elevation

This table is sorted by the lowest elevation that the plant has been reported.

## 3.5 Occurrence

Information in this category includes occurrence, blooming times, and habit.

### 3.5.1 Occurrence

The occurrence of a plant species is based on general observations, not precise quantitative data, included in Foxx and Tierney (1985). If the collector was other than the authors, the reference is cited. Herbarium specimens collected by Ora M. Clark are designated as being in the herbarium at Bandelier National Monument.

The following scheme was used to designate place occurrence.

- **ubiquitous**—Taxa occurring in a variety of habitats and communities.
- **common**—Taxa found extensively in one or two habitats or communities.
- **locally common**—Taxa found in clumps or patches within various habitats or communities but not distributed throughout the area.
- **not common**—Taxa not found extensively in various habitats or communities.
- **occasional**—Only a few specimens occurring in isolated pockets in specific habitats. In many cases, if the habitat was destroyed, the plant would disappear from the area.
- **vine**—A nonwoody plant with elongate, flexible, non-self-supporting stems.
- **perennial forb**—A nonwoody plant with self-supporting stem whose aboveground parts die each year and is not grasslike. Includes half-shrubs, or plants woody only at the base.
- **perennial grass**—Nonwoody plants belonging to the grass, sedge, or rush families.

### 3.5.2 Blooms

This column contains information on the season(s) in which the plant blooms.

### 3.5.3 Habit

This category contains information about the growth form and outward appearance of the plant. This is known as the habit. Information was taken from Martin and Hutchins (1980) and other references in section 5.2 of the reference list.

- **tree**—A woody plant that usually produces one main trunk or bole and a more or less distinct and elevated head.
- **shrub-tree**—A plant whose growth form may be either that of a shrub or a tree.
- **shrub**—A woody plant that remains low and produces several shoots or trunks from the base.
- **liana**—A woody plant with elongate, flexible, non-self-supporting stems.

## 3.6 Habitat

### 3.6.1 Habitat

This term is used to identify topographic position, soils, and communities where the plant was found. If the collector was other than those at LANL, Martin and Hutchins (1980) was consulted for habitat placement. The fields are taken from Foxx and Tierney (1984) and are not yet consistent with the cover types and community types included in Koch et al. (1996), Foxx et al. (1996), or Balice et al. (1997). However, most of the habitats can be cross-walked to these types.

### 3.6.2 Elevation

The elevational range given is an indication where the plant had been collected by Foxx and/or Tierney and during surveys done since 1980. If the collector was other than from LANL, Martin and Hutchins (1980) was consulted for the elevational range. This allows for sorting by elevation.

## 3.7 Roots, Economic, and Old Field

The attributes of a plant that pertain to its own life processes are identified as biological (Dittberner and Olson 1983). Specific informaton was primarily taken from Dittberner and Olson (1983).

In this roots section there are three biological elements:

- 1) the mycorrhizal nature of the plant,
- 2) the ability of the plant to form nodules, and
- 3) the ability of the plant to fix nitrogen.

### 3.7.1 Mycorrhizal Relationships

This category describes the nature of the relationship of a plant to a mycorrhizal association. All plants listed as being mycorrhizal have been cited in the literature as such. It should be recognized that most plants are considered to be mycorrhizal, but published reports are available for only a few at the present time.

- **endomycorrhizal**—Mycorrhizal association having a loose network of fungal hyphae enclosing the root and intracellular hyphae penetrating the cortical cells of the root.
- **ectomycorrhizal**—Mycorrhizal association having a dense fungal sheath enclosing the root and intercellular hyphae penetrating the root cortex.
- **ectendomycorrhizal**—Mycorrhizal association having a dense fungal sheath enclosing the root and both inter- and intracellular hyphae penetrating the root cortex.
- **endo/ecto**—Refers to plants reported as being both endomycorrhizal and ectomycorrhizal.
- **ecto/ectendo**—Refers to plants reported as being both ectomycorrhizal and ectendomycorrhizal.
- **nonmycorrhizal**—Refers either to plants that have been examined for mycorrhizae with none found or plants that occur in families considered to be classically nonmycorrhizal (Aizoaceae, Amaranthaceae, Brassicaceae, Cruciferae, Caryophyllaceae, Chenopodiaceae,

Commelinaceae, Cyperaceae, Fumariaceae, Juncaceae, Nyctaginaceae, Polygonaceae, and Urticaceae). Thus, the plants are probably nonmycorrhizal, although exceptions may be found in the future.

### 3.7.2 Nodule Forming

Occurrence of root nodules on a plant's roots.

- **reported**—Reported as nodule forming by observations or in the literature.
- **possible**—May form root nodules but no literature citation has been found.
- **no**—Reported as not nodule forming in the literature.

### 3.7.3 Nitrogen Fixing

A plant that can assimilate and fix the free nitrogen of the atmosphere with aid of microorganisms.

- **yes**—A plant fixes nitrogen, as reported in the literature.
- **maybe**—A plant may fix nitrogen, but has not been reported as such in the literature.
- **no**—A plant is known not to fix nitrogen.

This category also contains information about the biology or life processes of plants and economic information including whether or not the plant can produce hayfever, is edible, or is considered a weed.

There are three economic fields:

- 1) Does the plant produce hayfever?
- 2) Is the plant edible?
- 3) Is the plant considered a weed?

### 3.7.4 Hayfever Causing

A plant induces a hayfever response in humans.

- **yes**—A plant is reported in the literature as causing hayfever.
- **maybe**—A plant is reported to possibly cause a hayfever response; it is thought to cause hayfever but is not yet proven.
- **no**—A plant is known to be definitely not hayfever causing in any circumstances and is reported so in the literature.

### 3.7.5 Edible

Can a plant be eaten as food by humans?

- **yes**—One or more parts of a plant are edible.
- **yes-qualified**—A plant is edible only after a specific preparation or in certain seasons. User should consult expert.
- **no**—A plant is not edible but not poisonous.
- **poisonous**—A plant contains a toxic substance or a potential toxic substance that would prove harmful if ingested.

### 3.7.6 Weediness

This category describes a plant considered undesirable or troublesome, especially one that has growth where it is not wanted. Each plant is scored only once in the order of precedence below. Most of the information was taken from Dittberner and Olson (1983).

- **noxious**—A plant that is listed on official noxious weed seed lists of Colorado, Montana, North Dakota, Utah, or Wyoming.

- **economic**—A plant whose growth and reproduction cause economic loss and has priority over colonizing.
- **colonizing**—A plant that has attributes enabling it to become easily established in areas of environmental disturbance or where it is not wanted.
- **non-weedy**—A plant that is not a weed.

### 3.7.7 Old Fields, Old Field References, and Old Field Comments

These categories contain information about plants and old field disturbance. Various references were used and are noted under Indicator Plants (5.6 in the reference list).

## 3.8 Wetland and Disturbance

### 3.8.1 National Wetland List and National Wetland List: New Mexico

The information about plant species that occur in this category was compared with the *National List of Plant Species that Occur in Wetlands: New Mexico* (Reed 1988a) (column 5). This list was developed to provide an appendix to the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979). Column 4 represents information from *National List of Plant Species that Occur in Wetlands* (Reed 1988b). Information on the *National List* is sometimes slightly different than the listing for New Mexico. The plant species that occur in wetlands as used in the *National List* are defined as species that have environment where all or portions of the soil within the root zone become, periodically or continuously, saturated or inundated during the growing season (Reed 1988b).

The following indicator categories are used in these first two columns.

- **obligate wetland (OBLW)**—Occur almost always (estimated probability > 99%) under natural conditions in wetlands.
- **facultative wetland (FACW)**—Usually occur in wetlands (estimated probability 67%–99%), but occasionally found in nonwetlands.
- **facultative (FAC)**—Equally likely to occur in wetlands or nonwetlands (estimated probability 34%–66%).
- **facultative upland (FACU)**—Usually occur in nonwetlands (estimated probability 67%–99%), but occasionally found in wetlands (estimated probability 1%–33%).
- **obligate upland (UPL)**—Occur in wetlands in other regions, but occur almost always (estimated probability >99%) under natural conditions in nonwetlands in any region, it is not on the National List.

### 3.8.2 Disturbed Sites

This is information about the presence of a plant in a disturbed site such as along roadsides, in burned areas, and on waste sites.

### 3.8.3 Disturbance References

This category represents a reference that indicates the type of disturbance. Various references were used for this section and are noted in section 5.7 of the reference list.

### 3.8.4 Comments on Disturbed Sites Growth

This category indicates the ability of a plant to grow on a disturbed site.

## 3.9 Fire and Flood

This category represents information about plants that are characteristically found after fire or flood disturbances.

## 3.10 Growth Potential

This category gives information on the potential for species to be used in revegetation. Much of the information in this category was taken from Dittberner and Olson (1983).

### 3.10.1 Potential Biomass Production

This category describes the relative genetic ability of a plant to produce plant material by weight on an annual basis compared to other members of the same life form.

- **high**—A plant possesses ability to produce a greater yield of dry plant material than most other species of the same life form. Examples of high producing species of different life forms are big bluestem (*Andropogon gerardii*), smooth brome (*Bromus inermis*), alfalfa (*Medicago sativa*), yellow sweetclover (*Melilotus officinalis*), big sagebrush (*Artemisia tridentata*), and Engelmann spruce (*Picea engelmannii*).
- **medium**—A plant produces an average yield of dry plant material as compared to other species of the same life form. Examples of medium producing species of different life forms are timothy (*Phleum pratense*), Kentucky bluegrass (*Poa pratensis*), common sunflower (*Helianthus annuus*), limber pine (*Pinus flexilis*), and boxelder (*Acer negundo*).
- **low**—A plant produces a low yield of dry plant material as compared to other species of the same life form. Examples of low producing species of different life forms are cheatgrass (*Bromus tectorum*), northern bedstraw (*Galium boreale*), broom snakeweed (*Gutierrezia sarothrae*), and bearberry (*Arctostaphylos uva-ursi*).
- **very low**—A plant produces a very low yield of dry plant material as compared to

other species of the same life form. Examples of very low producing species of different life forms are ring muhly (*Muhlenbergia torreyi*), harebell (*Campanula rotundifolia*), and cushion coryphantha (*Corypantha vivipara*).

### 3.10.2 Gentle, Moderate, and Steep Slopes

These categories represent the ability of a plant to grow on different degrees of slope from gentle to steep. The major reference is from Dittberner and Olson (1983), most specifically for Colorado.

### 3.11 Revegetation

#### 3.11.1 Erosion Control Potential

This category describes a plant that commonly exhibits growth habit, plant structure, biomass, and/or root system that has the potential to reduce soil erosion in the area. The major reference is Dittberner and Olson (1983), Colorado.

- **high**—A plant that has aggressive growth habits, persistent plant structure, high potential biomass, and/or a good soil-binding root-rhizome-runner system in established stands.
- **medium**—A plant that has moderately aggressive growth, moderately persistent plant structure, moderately potential biomass, and/or a moderate soil-binding root-rhizome-runner system in established stands.
- **low**—A plant that has poor growth, persistence, biomass, and/or a soil-binding root system that makes it generally inadequate for erosion control.

#### 3.11.2 Establishment Requirements

This category describes the relative extent of cultural practices that must be employed to ensure a successful planting of the species on sites to which it is adapted in the area.

- **high**—Species requires elaborate or intensive cultural practices (e.g., irrigation, special seed treatments, containerized seedlings).
- **medium**—Species requires standard tillage practices or special cultural practices of short duration (e.g., plowing and/or discing and drilling).
- **low**—Species requires only minimal cultural practices (e.g., pioneer or invader species).

#### 3.11.3 Short-term Revegetation Potential

This category describes the ability of a plant to become quickly established and exhibit rapid growth within one to three years (includes annuals).

- **high**—A plant demonstrates rapid growth, good cover, and good reproduction.
- **medium**—A plant demonstrates moderately rapid growth, fair cover, and fair reproduction.
- **low**—A plant demonstrates slow growth, poor cover, and poor reproduction.

#### 3.11.4 Long-term Revegetation Potential

This category describes the ability of a plant to become established and persist over a period of more than three years in Colorado, Montana, North Dakota, Utah, or Wyoming.

- **high**—A plant demonstrates good growth, cover, reproduction, and stand maintenance characteristics.
- **medium**—A plant demonstrates fair growth, cover, reproduction, and stand maintenance characteristics.
- **low**—A plant demonstrates poor growth, cover, reproduction, and stand maintenance.

### 3.12 Origins and Biological Information

The biological and origins information was taken from Foxx and Tierney (1985), Martin and Hutchins (1980), and Dittberner and Olson (1983).

#### 3.12.1 Origin

This category is a determination if a plant has been introduced.

- **native**—A plant is in a natural part of the flora.
- **introduced**—A plant has been introduced into the environment by man or animals.

#### 3.12.2 Reproduction Type

This category describes the sexual or asexual process by which a plant generates others of the same kind.

- **sexual**—A plant reproduces by pollination and fertilization.
- **vegetative**—All cases where structures such as bulbil, tuber stolons, and rhizomes, which are normally accessory means of reproduction, take over the whole reproductive processes of a plant.
- **apomictic**—A plant has a type of reproduction that results in the formation of seeds and embryos by a nonsexual process.
- **vegetative-sexual**—A plant reproduces vegetatively and sexually.
- **sexual-apomictic**—A plant reproduces sexually and apomictically.
- **vegetative-sexual-apomictic**—A plant reproduces vegetatively, sexually, and apomictically.
- **vegetative-apomictic**—A plant reproduces vegetatively and apomictically.

### 3.12.3 Carbon Dioxide Fixation

The biochemical and physiological mechanism associated with the incorporation of CO<sup>2</sup> and its ultimate conversion into carbohydrates.

- **C3**—A plant uses a pathway where the first step in CO<sup>2</sup> fixation involves the formation of three-carbon compounds, the stomata are opened, and CO<sup>2</sup> fixation is in the daylight.
- **C4**—A plant uses a pathway where the first step in CO<sup>2</sup> fixation involves the formation of four-carbon compounds, the stomata are open, and CO<sup>2</sup> is fixed in the daylight.
- **CAM (crassulaceous acid metabolism)**—A plant uses a pathway where the first step in CO<sup>2</sup> fixation involves the formation of four-carbon compounds, the stomata are open, and CO<sup>2</sup> is fixed in the dark.
- **other**—A plant uses other types of pathway (e.g., is intermediate between C3 and C4 plants).
- **none**—A plant does not fix carbon dioxide (i.e., nongreen parasitic or saprophytic plants).

#### 3.12.4 Trophic Status

This category describes a plant's method of nutrient procurement.

- **autotrophic**—A plant is capable of self-nutrition; can use carbon, nitrogen, and sulfur in organic combinations and obtains energy from the sunlight.
- **parasitic**—A plant lives on and/or in other living organisms and obtains some or all of its nutrients from the host.



- **saprophytic**—A plant lives on and/or in dead organic material and obtains nutrients from it.
- **symbiotic**—A plant lives in close association with another plant and the symbiots derive nutritional requirements from each other.

### 3.12.5 Anthesis

This is the time of flowering for angiosperms, or pollination for gymnosperms. Most of this information was obtained from herbarium specimens and major floras for the areas. This information was taken from Dittberner and Olson (1983) primarily for Colorado.

### 3.13 Soil

**Growth on Soil.** This database illustrates the relative ability of a plant to show the full development of all phases of its growth potential on a particular soil texture or soil type where the plant normally occurs in Colorado, Montana, North Dakota, Utah, or Wyoming. This information was obtained from Dittberner and Olson (1983).

- **Gravel**—growth on gravel; a soil in which large particles (between 2 mm and 7.62 cm) make up 70% or more of the material by weight.
- **Sand**—growth on sand; a soil in which the sand separates (0.05 to 2 mm) make up 70% or more of the material by weight.
- **Sandy Loam**—growth on sandy loam; a loamy soil that is intermediate in texture between sand and loam.
- **Loam**—growth on loam; a soil that is considered to have an ideal texture for gardening with equal amounts of silt and sand and less than 25% clay.

- **Clay Loam**—growth on clay loam; a loamy soil that is intermediate in texture between clay and loam.
- **Clay**—growth on clay; a soil with at least 35% clay separates (less than 0.002 mm) by weight but not more than 50%.
- **Dense Clay**—growth on dense clay; a soil with at least 50% clay separates (less than 0.002 mm) by weight.
  - **good**—A plant is highly adapted to growth on a particular soil texture or soil type.
  - **fair**—A plant is moderately adapted to growth on a particular soil texture or soil type.
  - **poor**—A plant shows little or no adaptability to growth on a particular soil texture or soil type.

### 3.14 Wildlife

This category contains information about the cover and food value of some of the species. This information was obtained from Dittberner and Olson (1983), primarily for Colorado.

**Cover Value.** This category describes the degree to which a plant provides environmental protection (i.e., thermal, nesting, brooding, or feeding cover) during one or more seasons for wildlife species.

- **good**—A plant is readily utilized for cover when available.
- **fair**—A plant is moderately utilized for cover when available.
- **poor**—A plant is rarely or never utilized for cover when available.

### 3.15 Ethnographic Information

The ethnographic information has been taken from a variety of ethnologies produced in the early 1900s. The various references used are noted under section 5.7 of the reference list.

### 4.0 Acknowledgments

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Such a checklist and database is continually evolving. We hope that this iteration adds to the knowledge of the area and provides a base on which to continue to build.

Terelane S. Foxx

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## 5.7 Ethnobotanical

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**FAMILY**



Showy Milkweed

## FAMILY

| Family*        | USDA Symbol | USDA NRCS PLANTS                                                        | Martin and Hutchins (1980)                                              |
|----------------|-------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Aceraceae      | ACGLN2      | <i>Acer glabrum</i> var. <i>neomexicanum</i> (Greene) Kearney & Peebles | <i>Acer glabrum</i> var. <i>neomexicanum</i> (Greene) Kearney & Peebles |
| Aceraceae      | ACNEI2      | <i>Acer negundo</i> var. <i>interius</i> (Britt.) Sarg.                 | <i>Acer negundo</i> var. <i>interius</i> (Britt.) Sarg.                 |
| Agavaceae      | NOM1        | <i>Nolina microcarpa</i> S. Wats.                                       | <i>Nolina microcarpa</i> S. Wats.                                       |
| Agavaceae      | YUAN2       | <i>Yucca angustissima</i> Engelm. ex Trel.                              | <i>Yucca angustissima</i> Engelm. ex Trel.                              |
| Agavaceae      | YUBA        | <i>Yucca baccata</i> Torr.                                              | <i>Yucca baccata</i> Torr.                                              |
| Agavaceae      | YUGL        | <i>Yucca glauca</i> Nutt.                                               | <i>Yucca glauca</i> Nutt.                                               |
| Amaranthaceae  | AMAL        | <i>Amaranthus albus</i> L.                                              | <i>Amaranthus albus</i> L.                                              |
| Amaranthaceae  | AMAL        | <i>Amaranthus albus</i> L.                                              | <i>Amaranthus graecizans</i> auct. non L.                               |
| Amaranthaceae  | AMBL        | <i>Amaranthus blitoides</i> S. Wats.                                    | <i>Amaranthus graecizans</i> auct. non L.                               |
| Amaranthaceae  | AMHY        | <i>Amaranthus hybridus</i> L.                                           | <i>Amaranthus hybridus</i> L.                                           |
| Amaranthaceae  | AMHY2       | <i>Amaranthus hypochondriacus</i> L.                                    | <i>Amaranthus leucocarpus</i> S. Wats.                                  |
| Amaranthaceae  | AMPA        | <i>Amaranthus palmeri</i> S. Wats.                                      | <i>Amaranthus palmeri</i> S. Wats.                                      |
| Amaranthaceae  | AMPO2       | <i>Amaranthus powellii</i> S. Wats.                                     | <i>Amaranthus powellii</i> S. Wats.                                     |
| Amaranthaceae  | AMRE        | <i>Amaranthus retroflexus</i> L.                                        | <i>Amaranthus retroflexus</i> L.                                        |
| Amaranthaceae  | AMAR        | <i>Amaranthus arenicola</i> I.M. Johnston                               | <i>Amaranthus torreyi</i> auct. non (Gray) Benth. ex S. Wats.           |
| Amaranthaceae  | AMBI        | <i>Amaranthus bigelovii</i> Uline & Bray                                | <i>Amaranthus torreyi</i> auct. non (Gray) Benth. ex S. Wats.           |
| Amaranthaceae  | AMWA        | <i>Amaranthus watsonii</i> Standl                                       | <i>Amaranthus torreyi</i> auct. non (Gray) Benth. ex S. Wats.           |
| Anacardiaceae  | RHGL        | <i>Rhus glabra</i> L.                                                   | <i>Rhus glabra</i> L.                                                   |
| Anacardiaceae  | TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i> (L.) Kuntze          | <i>Rhus radicans</i> L.                                                 |
| Anacardiaceae  | RHTR        | <i>Rhus trilobata</i> Nutt.                                             | <i>Rhus trilobata</i> Nutt.                                             |
| Apiaceae       | ANPI2       | <i>Angelica pinnata</i> S. Wats.                                        | <i>Angelica pinnata</i> S. Wats.                                        |
| Apiaceae       | BEER        | <i>Berula erecta</i> (Huds.) Coville                                    | <i>Berula erecta</i> (Huds.) Coville                                    |
| Apiaceae       | CIDO        | <i>Cicuta douglasii</i> (DC.) Coult. & Rose                             | <i>Cicuta douglasii</i> (DC.) Coult. & Rose                             |
| Apiaceae       | COSA        | <i>Coriandrum sativum</i> L.                                            | <i>Coriandrum sativum</i> L.                                            |
| Apiaceae       | CYBU        | <i>Cymopterus bulbosus</i> A. Nels.                                     | <i>Cymopterus bulbosus</i> A. Nels.                                     |
| Apiaceae       | HEMA80      | <i>Heracleum maximum</i> Bartr.                                         | <i>Heracleum lanatum</i> Michx.                                         |
| Apiaceae       | LIPO        | <i>Ligusticum porteri</i> Coult. & Rose                                 | <i>Ligusticum porteri</i> Coult. & Rose                                 |
| Apiaceae       | OSDE        | <i>Osmorhiza depauperata</i> Phil.                                      | <i>Osmorhiza obtusa</i> (Coult. & Rose) Fern.                           |
| Apiaceae       | OXFE        | <i>Oxypolis fendleri</i> (Gray) Heller                                  | <i>Oxypolis fendleri</i> (Gray) Heller                                  |
| Apiaceae       | PSMO        | <i>Pseudocymopterus montanus</i> (Gray) Coult. & Rose                   | <i>Pseudocymopterus montanus</i> (Gray) Coult. & Rose                   |
| Apocynaceae    | APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> L.        | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> L.        |
| Apocynaceae    | APCA        | <i>Apocynum cannabinum</i> L.                                           | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i> A. DC.               |
| Apocynaceae    | APFL        | <i>Apocynum</i> X <i>floribundum</i> Greene (pro sp.)                   | <i>Apocynum medium</i> var. <i>floribundum</i> (Greene) Woods.          |
| Araliaceae     | ARRA        | <i>Aralia racemosa</i> L.                                               | <i>Aralia racemosa</i> L.                                               |
| Asclepiadaceae | ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i> (Dcne.) Woods.           | <i>Asclepias asperula</i> ssp. <i>asperula</i> (Dcne.) Woods.           |
| Asclepiadaceae | ASEN        | <i>Asclepias engelmanniana</i> Woods.                                   | <i>Asclepias engelmanniana</i> Woods.                                   |

\* A key for heading acronyms and abbreviations is on the last page of this table.

## FAMILY CON'T

| Family         | USDA Symbol | USDA NRCS PLANTS                                                               | Martin and Hutchins (1980)                                          |
|----------------|-------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Asclepiadaceae | ASIN14      | <i>Asclepias involucrata</i> Engelm. ex Torr.                                  | <i>Asclepias involucrata</i> Engelm. ex Torr.                       |
| Asclepiadaceae | ASMA        | <i>Asclepias macrotis</i> Torr.                                                | <i>Asclepias macrotis</i> Torr.                                     |
| Asclepiadaceae | ASSP        | <i>Asclepias speciosa</i> Torr.                                                | <i>Asclepias speciosa</i> Torr.                                     |
| Asclepiadaceae | ASSU2       | <i>Asclepias subverticillata</i> (Gray) Vail                                   | <i>Asclepias subverticillata</i> (Gray) Vail                        |
| Asclepiadaceae | ASTUI       | <i>Asclepias tuberosa</i> ssp. interior Woods.                                 | <i>Asclepias tuberosa</i> ssp. terminalis Woods.                    |
| Asclepiadaceae | ASVI        | <i>Asclepias viridiflora</i> Raf.                                              | <i>Asclepias viridiflora</i> Raf.                                   |
| Aspleniaceae   | ASTR2       | <i>Asplenium trichomanes</i> L.                                                | <i>Asplenium trichomanes</i> L.                                     |
| Asteraceae     | ACMIO       | <i>Achillea millefolium</i> var. occidentalis DC.                              | <i>Achillea millefolium</i> var. occidentalis DC.                   |
| Asteraceae     | AGLL        | <i>Agoseris glauca</i> var. laciniata (D.C. Eat.) Smiley                       | <i>Agoseris arizonica</i> Greene                                    |
| Asteraceae     | AGAU2       | <i>Agoseris aurantiaca</i> (Hook.) Greene                                      | <i>Agoseris aurantiaca</i> (Hook.) Greene                           |
| Asteraceae     | AGGLG       | <i>Agoseris glauca</i> var. glauca (Pursh) Raf.                                | <i>Agoseris glauca</i> var. glauca (Pursh) Raf.                     |
| Asteraceae     | AGLL        | <i>Agoseris glauca</i> var. laciniata (D.C. Eat.) Smiley                       | <i>Agoseris glauca</i> var. parviflora (Nutt.) Rydb.                |
| Asteraceae     | AMAR2       | <i>Ambrosia artemisiifolia</i> L.                                              | <i>Ambrosia artemisiifolia</i> L.                                   |
| Asteraceae     | AMPS        | <i>Ambrosia psilostachya</i> DC.                                               | <i>Ambrosia psilostachya</i> DC.                                    |
| Asteraceae     | ANMA        | <i>Anaphalis margaritacea</i> (L.) Benth. & Hook. f.                           | <i>Anaphalis margaritacea</i> (L.) Benth. & Hook. f.                |
| Asteraceae     | ANMA5       | <i>Antennaria marginata</i> Greene                                             | <i>Antennaria marginata</i> Greene                                  |
| Asteraceae     | ANPA4       | <i>Antennaria parvifolia</i> Nutt.                                             | <i>Antennaria parvifolia</i> Nutt.                                  |
| Asteraceae     | ANRO2       | <i>Antennaria rosea</i> Greene                                                 | <i>Antennaria rosea</i> Greene                                      |
| Asteraceae     | ANRO3       | <i>Antennaria rosulata</i> Rydb.                                               | <i>Antennaria rosulata</i> Rydb.                                    |
| Asteraceae     | APRAH       | <i>Aphanostephus ramosissimus</i> var. humilis (Benth.) B.L. Turner & Birdsong | <i>Aphanostephus arizonicus</i> Gray                                |
| Asteraceae     | ARBI3       | <i>Artemisia bigelovii</i> Gray                                                | <i>Artemisia bigelovii</i> Gray                                     |
| Asteraceae     | ARCAP2      | <i>Artemisia campestris</i> ssp. pacifica (Nutt.) Hall & Clements              | <i>Artemisia campestris</i> ssp. pacifica (Nutt.) Hall & Clements   |
| Asteraceae     | ARCA13      | <i>Artemisia cana</i> Pursh                                                    | <i>Artemisia cana</i> Pursh                                         |
| Asteraceae     | ARCA14      | <i>Artemisia carruthii</i> Wood ex Carruth.                                    | <i>Artemisia carruthii</i> var. wrightii (Gray) Blake               |
| Asteraceae     | ARDR4       | <i>Artemisia dracunculus</i> L.                                                | <i>Artemisia dracunculus</i> L.                                     |
| Asteraceae     | ARFI2       | <i>Artemisia filifolia</i> Torr.                                               | <i>Artemisia filifolia</i> Torr.                                    |
| Asteraceae     | ARFR3       | <i>Artemisia franserioides</i> Greene                                          | <i>Artemisia franserioides</i> Greene                               |
| Asteraceae     | ARFR4       | <i>Artemisia frigida</i> Willd.                                                | <i>Artemisia frigida</i> Willd.                                     |
| Asteraceae     | ARLUA       | <i>Artemisia ludoviciana</i> ssp. albula (Woot.) Keck                          | <i>Artemisia ludoviciana</i> ssp. albula (Woot.) Keck               |
| Asteraceae     | ARLUL2      | <i>Artemisia ludoviciana</i> ssp. ludoviciana Nutt.                            | <i>Artemisia ludoviciana</i> ssp. ludoviciana Nutt.                 |
| Asteraceae     | ARLUM2      | <i>Artemisia ludoviciana</i> ssp. mexicana (Willd. ex Spreng.) Keck            | <i>Artemisia ludoviciana</i> ssp. mexicana (Willd. ex Spreng.) Keck |
| Asteraceae     | ARLUS       | <i>Artemisia ludoviciana</i> ssp. sulcata (Rydb.) Keck                         | <i>Artemisia ludoviciana</i> ssp. sulcata (Rydb.) Keck              |
| Asteraceae     | ARLUR       | <i>Artemisia ludoviciana</i> ssp. redolens (Gray) Keck                         | <i>Artemisia ludoviciana</i> ssp. redolens (Gray) Keck              |
| Asteraceae     | ARTR2       | <i>Artemisia tridentata</i> Nutt.                                              | <i>Artemisia tridentata</i> Nutt.                                   |
| Asteraceae     | ASER3       | <i>Aster ericoides</i> L.                                                      | <i>Aster ericoides</i> L.                                           |
| Asteraceae     | ASFE        | <i>Aster fendleri</i> Gray                                                     | <i>Aster fendleri</i> Gray                                          |
| Asteraceae     | ASFO        | <i>Aster foliaceus</i> Lindl. ex DC.                                           | <i>Aster foliaceus</i> Lindl. ex DC.                                |
| Asteraceae     | ASGLG       | <i>Aster glaucodes</i> var. glaucodes Blake                                    | <i>Aster glaucodes</i> var. glaucodes Blake                         |



## FAMILY CON'T

| Family     | USDA Symbol | USDA NRCS PLANTS                                                                                     | Martin and Hutchins (1980)                                                                           |
|------------|-------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Asteraceae | ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i> (Gray) Semple & Chmielewski                           | <i>Aster hesperius</i> Gray                                                                          |
| Asteraceae | ASLA5       | <i>Aster laevis</i> L.                                                                               | <i>Aster laevis</i> L.                                                                               |
| Asteraceae | ASNO        | <i>Aster novae-angliae</i> L.                                                                        | <i>Aster novae-angliae</i> L.                                                                        |
| Asteraceae | ASOC        | <i>Aster occidentalis</i> (Nutt.) Torr. & Gray                                                       | <i>Aster occidentalis</i> (Nutt.) Torr. & Gray                                                       |
| Asteraceae | ALPA14      | <i>Almutaster pauciflorus</i> (Nutt.) A. & D. Love                                                   | <i>Aster pauciflorus</i> Nutt.                                                                       |
| Asteraceae | ASPR2       | <i>Aster praealtus</i> Poir.                                                                         | <i>Aster praealtus</i> Poir.                                                                         |
| Asteraceae | BABI3       | <i>Bahia biternata</i> Gray                                                                          | <i>Bahia biternata</i> Gray                                                                          |
| Asteraceae | BADI        | <i>Bahia dissecta</i> (Gray) Britt.                                                                  | <i>Bahia dissecta</i> (Gray) Britt.                                                                  |
| Asteraceae | SCMU6       | <i>Schkuhria multiflora</i> Hook. & Arn.                                                             | <i>Bahia neomexicana</i> (Gray) Gray                                                                 |
| Asteraceae | PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> (Gray) W. Ellison                        | <i>Bahia oblongifolia</i> (Gray) Gray                                                                |
| Asteraceae | BAMU        | <i>Baileya multiradiata</i> Harvey & Gray ex Gray                                                    | <i>Baileya multiradiata</i> Harvey & Gray ex Gray                                                    |
| Asteraceae | BELY        | <i>Berlandiera lyrata</i> Benth.                                                                     | <i>Berlandiera lyrata</i> Benth.                                                                     |
| Asteraceae | BIBI        | <i>Bidens bigelovii</i> Gray                                                                         | <i>Bidens bigelovii</i> Gray                                                                         |
| Asteraceae | BIBI7       | <i>Bidens bipinnata</i> L.                                                                           | <i>Bidens bipinnata</i> L.                                                                           |
| Asteraceae | BICE        | <i>Bidens cernua</i> L.                                                                              | <i>Bidens cernua</i> L.                                                                              |
| Asteraceae | BITR        | <i>Bidens tripartita</i> L.                                                                          | <i>Bidens comosa</i> (Gray) Wieg.                                                                    |
| Asteraceae | BIFR        | <i>Bidens frondosa</i> L.                                                                            | <i>Bidens frondosa</i> L.                                                                            |
| Asteraceae | BRBE        | <i>Brickellia betonicifolia</i> Gray                                                                 | <i>Brickellia betonicifolia</i> Gray                                                                 |
| Asteraceae | BRBR2       | <i>Brickellia brachyphylla</i> (Gray) Gray                                                           | <i>Brickellia brachyphylla</i> (Gray) Gray                                                           |
| Asteraceae | BRCA3       | <i>Brickellia californica</i> (Torr. & Gray) Gray                                                    | <i>Brickellia californica</i> (Torr. & Gray) Gray                                                    |
| Asteraceae | BRFE        | <i>Brickellia fendleri</i> Gray                                                                      | <i>Brickellia fendleri</i> Gray                                                                      |
| Asteraceae | BRGR        | <i>Brickellia grandiflora</i> (Hook.) Nutt.                                                          | <i>Brickellia grandiflora</i> (Hook.) Nutt.                                                          |
| Asteraceae | CANU4       | <i>Carduus nutans</i> L.                                                                             | <i>Carduus nutans</i> L.                                                                             |
| Asteraceae | HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i> (Pursh) Shinnars                                      | <i>Chrysopsis villosa</i> (Pursh) Nutt. ex DC.                                                       |
| Asteraceae | ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                                | <i>Chrysothamnus nauseosus</i> ssp. <i>bigelovii</i> (Gray) Hall & Clements                          |
| Asteraceae | ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                              | <i>Chrysothamnus nauseosus</i> ssp. <i>latisquameus</i> (Gray) Hall & Clements                       |
| Asteraceae | ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i> (M.E. Jones) Nesom & Baird                            | <i>Chrysothamnus parryi</i> ssp. <i>attenuatus</i> (M.E. Jones) Hall & Clements                      |
| Asteraceae | ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i> (Parry ex Gray) Nesom & Baird                          | <i>Chrysothamnus parryi</i> ssp. <i>howardii</i> (Parry ex Gray) Hall & Clements                     |
| Asteraceae | CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> (Hook.) Nutt. | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> (Hook.) Nutt. |
| Asteraceae | CINE        | <i>Cirsium neomexicanum</i> Gray                                                                     | <i>Cirsium neomexicanum</i> Gray                                                                     |
| Asteraceae | CIOC2       | <i>Cirsium ochrocentrum</i> Gray                                                                     | <i>Cirsium ochrocentrum</i> Gray                                                                     |
| Asteraceae | CIPA5       | <i>Cirsium pallidum</i> Woot. & Standl.                                                              | <i>Cirsium pallidum</i> Woot. & Standl.                                                              |
| Asteraceae | CIPA        | <i>Cirsium parryi</i> (Gray) Petrak                                                                  | <i>Cirsium parryi</i> (Gray) Petrak                                                                  |
| Asteraceae | CICA10      | <i>Cirsium calcareum</i> (M.E. Jones) Woot. & Standl.                                                | <i>Cirsium pulchellum</i> (Greene) Woot. & Standl.                                                   |
| Asteraceae | CIUN        | <i>Cirsium undulatum</i> (Nutt.) Spreng.                                                             | <i>Cirsium undulatum</i> (Nutt.) Spreng.                                                             |
| Asteraceae | CIVU        | <i>Cirsium vulgare</i> (Savi) Ten.                                                                   | <i>Cirsium vulgare</i> (Savi) Ten.                                                                   |

# FAMILY CON'T

| Family     | USDA Symbol | USDA NRCS PLANTS                                                           | Martin and Hutchins (1980)                                           |
|------------|-------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|
| Asteraceae | COCA5       | <i>Conyza canadensis</i> (L.) Cronq.                                       | <i>Conyza canadensis</i> (L.) Cronq.                                 |
| Asteraceae | COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i> Nutt.                     | <i>Coreopsis cardaminefolia</i> (DC.) Torr. & Gray                   |
| Asteraceae | COTI3       | <i>Coreopsis tinctoria</i> Nutt.                                           | <i>Coreopsis tinctoria</i> Nutt.                                     |
| Asteraceae | COPA12      | <i>Cosmos parviflorus</i> (Jacq.) Pers.                                    | <i>Cosmos parviflorus</i> (Jacq.) Pers.                              |
| Asteraceae | DYPA        | <i>Dyssodia papposa</i> (Vent.) A.S. Hitchc.                               | <i>Dyssodia papposa</i> (Vent.) A.S. Hitchc.                         |
| Asteraceae | THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i> (DC.) Strother       | <i>Dyssodia thurberi</i> (Gray) B.L. Robins.                         |
| Asteraceae | ERCA4       | <i>Erigeron canus</i> Gray                                                 | <i>Erigeron canus</i> Gray                                           |
| Asteraceae | ERDI4       | <i>Erigeron divergens</i> Torr. & Gray                                     | <i>Erigeron divergens</i> Torr. & Gray                               |
| Asteraceae | EREL9       | <i>Erigeron elatior</i> (Gray) Greene                                      | <i>Erigeron elatior</i> (Gray) Greene                                |
| Asteraceae | ERFL        | <i>Erigeron flagellaris</i> Gray                                           | <i>Erigeron flagellaris</i> Gray                                     |
| Asteraceae | ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> Greene             | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> Greene       |
| Asteraceae | ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i> (Rydb.) Cronq.          | <i>Erigeron formosissimus</i> var. <i>viscidus</i> (Rydb.) Cronq.    |
| Asteraceae | ERFL        | <i>Erigeron flagellaris</i> Gray                                           | <i>Erigeron nudiflorus</i> Buckl.                                    |
| Asteraceae | ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i> (Greene) Cronq.       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i> (Greene) Cronq. |
| Asteraceae | ERPH        | <i>Erigeron philadelphicus</i> L.                                          | <i>Erigeron philadelphicus</i> L.                                    |
| Asteraceae | ERVR        | <i>Erigeron vreelandii</i> Greene                                          | <i>Erigeron platyphyllus</i> Greene                                  |
| Asteraceae | ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinus</i> (Hook. & Arn.) Torr. & Gray | <i>Erigeron pumilus</i> ssp. <i>concinoides</i> Cronq.               |
| Asteraceae | ERRH2       | <i>Erigeron rhizomatus</i> Cronq.                                          | <i>Erigeron rhizomatus</i> Cronq.                                    |
| Asteraceae | ERSI3       | <i>Erigeron simplex</i> Greene                                             | <i>Erigeron simplex</i> Greene                                       |
| Asteraceae | ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i> (Nutt.) Cronq.            | <i>Erigeron speciosus</i> var. <i>macranthus</i> (Nutt.) Cronq.      |
| Asteraceae | ERSU2       | <i>Erigeron subtrinervis</i> Rydb. ex Porter & Britt.                      | <i>Erigeron subtrinervis</i> Rydb. ex Porter & Britt.                |
| Asteraceae | EREX4       | <i>Erigeron eximius</i> Greene                                             | <i>Erigeron superbus</i> Greene ex Rydb.                             |
| Asteraceae | ERUT        | <i>Erigeron utahensis</i> Gray                                             | <i>Erigeron utahensis</i> Gray                                       |
| Asteraceae | ERVE2       | <i>Erigeron vetensis</i> Rydb.                                             | <i>Erigeron vetensis</i> Rydb.                                       |
| Asteraceae | AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                                         | <i>Franeria acanthicarpa</i> (Hook.) Coville                         |
| Asteraceae | AMCO3       | <i>Ambrosia confertiflora</i> DC.                                          | <i>Franeria confertiflora</i> (DC.) Rydb.                            |
| Asteraceae | GAPI        | <i>Gaillardia pinnatifida</i> Torr.                                        | <i>Gaillardia pinnatifida</i> Torr.                                  |
| Asteraceae | PSST7       | <i>Pseudognaphalium stramineum</i> (Kunth) W.A. Weber                      | <i>Gnaphalium chilense</i> Spreng.                                   |
| Asteraceae | PSST7       | <i>Pseudognaphalium stramineum</i> (Kunth) W.A. Weber                      | <i>Gnaphalium chilense</i> Spreng.                                   |
| Asteraceae | GNEX        | <i>Gnaphalium exilifolium</i> A. Nels.                                     | <i>Gnaphalium grayi</i> A. Nels. & J.F. Macbr.                       |
| Asteraceae | PSMA11      | <i>Pseudognaphalium macounii</i> (Greene) Kartesz, comb. nov. ined.        | <i>Gnaphalium macounii</i> Greene                                    |
| Asteraceae | GNPA        | <i>Gnaphalium palustre</i> Nutt.                                           | <i>Gnaphalium palustre</i> Nutt.                                     |
| Asteraceae | PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i> (DC.) W.A. Weber   | <i>Gnaphalium wrightii</i> Gray                                      |
| Asteraceae | GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i> (Rydb.) Nesom                 | <i>Grindelia aphanactis</i> Rydb.                                    |
| Asteraceae | GRFA        | <i>Grindelia fastigiata</i> Greene                                         | <i>Grindelia fastigiata</i> Greene                                   |
| Asteraceae | GRSQ        | <i>Grindelia squarrosa</i> (Pursh) Dunal                                   | <i>Grindelia squarrosa</i> (Pursh) Dunal                             |
| Asteraceae | GUMI        | <i>Gutierrezia microcephala</i> (DC.) Gray                                 | <i>Gutierrezia microcephala</i> (DC.) Gray                           |
| Asteraceae | GUSA2       | <i>Gutierrezia sarothrae</i> (Pursh) Britt. & Rusby                        | <i>Gutierrezia sarothrae</i> (Pursh) Britt. & Rusby                  |
| Asteraceae | PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i> (Gray) Greene                   | <i>Haplopappus croceus</i> Gray                                      |
| Asteraceae | MAGR10      | <i>Machaeranthera gracilis</i> (Nutt.) Shinnars                            | <i>Haplopappus gracilis</i> (Nutt.) Gray                             |



# FAMILY CON'T

| Family     | USDA Symbol | USDA NRCS PLANTS                                                                                   | Martin and Hutchins (1980)                                                                         |
|------------|-------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Asteraceae | MAGR        | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i> (Nutt.) Shinnery                     | <i>Haplopappus nuttallii</i> Torr. & Gray                                                          |
| Asteraceae | SOPA4       | <i>Solidago parryi</i> (Gray) Greene                                                               | <i>Haplopappus parryi</i> Gray                                                                     |
| Asteraceae | MAPI4       | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> (Hook.) Shinnery | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> (Hook.) Shinnery |
| Asteraceae | HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i> (Nutt.) Fern.                                       | <i>Helenium autumnale</i> var. <i>montanum</i> (Nutt.) Fern.                                       |
| Asteraceae | HYHO        | <i>Hymenoxys hoopesii</i> (Gray) Biemer                                                            | <i>Helenium hoopesii</i> Gray                                                                      |
| Asteraceae | HEQU2       | <i>Helianthella quinquenervis</i> (Hook.) Gray                                                     | <i>Helianthella quinquenervis</i> (Hook.) Gray                                                     |
| Asteraceae | HEAN3       | <i>Helianthus annuus</i> L.                                                                        | <i>Helianthus annuus</i> L.                                                                        |
| Asteraceae | HEAR8       | <i>Helianthus arizonensis</i> R.C. Jackson                                                         | <i>Helianthus arizonensis</i> R.C. Jackson                                                         |
| Asteraceae | HEPE        | <i>Helianthus petiolaris</i> Nutt.                                                                 | <i>Helianthus petiolaris</i> Nutt.                                                                 |
| Asteraceae | HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i> (Rydb.) O. Spring & E. Schilling          | <i>Helianthus rigidus</i> ssp. <i>subrhomboideus</i> (Rydb.) Heiser                                |
| Asteraceae | HICA4       | <i>Hieracium cameum</i> Greene                                                                     | <i>Hieracium cameum</i> Greene                                                                     |
| Asteraceae | HIFE        | <i>Hieracium fendleri</i> Schultz-Bip.                                                             | <i>Hieracium fendleri</i> Schultz-Bip.                                                             |
| Asteraceae | HYFI        | <i>Hymenopappus filifolius</i> Hook.                                                               | <i>Hymenopappus filifolius</i> Hook.                                                               |
| Asteraceae | HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i> Gray                                         | <i>Hymenopappus flavescens</i> var. <i>flavescens</i> Gray                                         |
| Asteraceae | HYNE        | <i>Hymenopappus newberryi</i> (Gray) I.M. Johnston                                                 | <i>Hymenopappus newberryi</i> (Gray) I.M. Johnston                                                 |
| Asteraceae | HYTE2       | <i>Hymenopappus tenuifolius</i> Pursh                                                              | <i>Hymenopappus tenuifolius</i> Pursh                                                              |
| Asteraceae | TECA2       | <i>Tetradymia canescens</i> DC.                                                                    | <i>Tetradymia canescens</i> DC.                                                                    |
| Asteraceae | TEACA       | <i>Tetraneuris acaulis</i> var. <i>arizonica</i> (Greene) Parker                                   | <i>Hymenoxys acaulis</i> var. <i>arizonica</i> (Greene) Parker                                     |
| Asteraceae | TEACN       | <i>Tetraneuris acaulis</i> var. <i>nana</i> (Welsh) Kartesz, comb. nov. ined.                      | <i>Hymenoxys argentea</i> (Gray) Parker                                                            |
| Asteraceae | TEBR        | <i>Tetraneuris brandegei</i> (Porter ex Gray) Parker                                               | <i>Hymenoxys brandegei</i> Porter ex Gray                                                          |
| Asteraceae | TEIV        | <i>Tetraneuris ivesiana</i> Greene                                                                 | <i>Hymenoxys ivesiana</i> (Greene) Parker                                                          |
| Asteraceae | HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i> (Gray) Parker                                 | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i> (Gray) Parker                                 |
| Asteraceae | IVAX        | <i>Iva axillaris</i> Pursh                                                                         | <i>Iva axillaris</i> Pursh                                                                         |
| Asteraceae | IVXA        | <i>Iva xanthifolia</i> Nutt.                                                                       | <i>Iva xanthifolia</i> Nutt.                                                                       |
| Asteraceae | KRBI        | <i>Krigia biflora</i> (Walt.) Blake                                                                | <i>Krigia biflora</i> (Walt.) Blake                                                                |
| Asteraceae | BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> (Woot. & Standl.) B.L. Turner              | <i>Kuhnia chlorolepis</i> Woot. & Standl.                                                          |
| Asteraceae | LACA        | <i>Lactuca canadensis</i> L.                                                                       | <i>Lactuca canadensis</i> L.                                                                       |
| Asteraceae | LAGR        | <i>Lactuca graminifolia</i> Michx.                                                                 | <i>Lactuca graminifolia</i> Michx.                                                                 |
| Asteraceae | LALU        | <i>Lactuca ludoviciana</i> (Nutt.) Riddell                                                         | <i>Lactuca ludoviciana</i> (Nutt.) Riddell                                                         |
| Asteraceae | LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i> (Pursh) Breitung                                     | <i>Lactuca pulchella</i> (Pursh) DC.                                                               |
| Asteraceae | LASE        | <i>Lactuca serriola</i> L.                                                                         | <i>Lactuca serriola</i> L.                                                                         |
| Asteraceae | LABI        | <i>Lactuca biennis</i> (Moench) Fern.                                                              | <i>Lactuca spicata</i> auct. non (Lam.) A.S. Hitchc.                                               |
| Asteraceae | CHER2       | <i>Chaetopappa ericoides</i> (Torr.) Nesom                                                         | <i>Leucelene ericoides</i> (Torr.) Greene                                                          |
| Asteraceae | LIPU        | <i>Liatris punctata</i> Hook.                                                                      | <i>Liatris punctata</i> Hook.                                                                      |
| Asteraceae | PSAS2       | <i>Psilactis asteroides</i> Gray                                                                   | <i>Machaeranthera amplifolia</i> Woot. & Standl.                                                   |
| Asteraceae | MABI        | <i>Machaeranthera bigelovii</i> (Gray) Greene                                                      | <i>Machaeranthera bigelovii</i> (Gray) Greene                                                      |
| Asteraceae | MACA2       | <i>Machaeranthera canescens</i> (Pursh) Gray                                                       | <i>Machaeranthera canescens</i> (Pursh) Gray                                                       |

# FAMILY CON'T

| Family     | USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                          |
|------------|-------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Asteraceae | MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i> Gray             | <i>Machaeranthera linearis</i> Greene                               |
| Asteraceae | MATA2       | <i>Machaeranthera tanacetifolia</i> (Kunth) Nees                                       | <i>Machaeranthera tanacetifolia</i> (Kunth) Nees                    |
| Asteraceae | MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> (Lindl.) Gray | <i>Machaeranthera tephrodes</i> (Gray) Greene                       |
| Asteraceae | MAFE        | <i>Malacothrix fendleri</i> Gray                                                       | <i>Malacothrix fendleri</i> Gray                                    |
| Asteraceae | MELE2       | <i>Melampodium leucanthum</i> Torr. & Gray                                             | <i>Melampodium leucanthum</i> Torr. & Gray                          |
| Asteraceae | URLI2       | <i>Uropappus linearifolius</i> Nutt.                                                   | <i>Microseris linearifolia</i> (Nutt.) Schultz-Bip.                 |
| Asteraceae | PAIN2       | <i>Parthenium incanum</i> Kunth                                                        | <i>Parthenium incanum</i> Kunth                                     |
| Asteraceae | PEAN        | <i>Pectis angustifolia</i> Torr.                                                       | <i>Pectis angustifolia</i> Torr.                                    |
| Asteraceae | PEPA2       | <i>Pectis papposa</i> Harvey & Gray                                                    | <i>Pectis papposa</i> Harvey & Gray                                 |
| Asteraceae | PECA10      | <i>Pericome caudata</i> Gray                                                           | <i>Pericome caudata</i> Gray                                        |
| Asteraceae | PSTA        | <i>Psilostrophe tagetina</i> (Nutt.) Greene                                            | <i>Psilostrophe tagetina</i> (Nutt.) Greene                         |
| Asteraceae | PYP4        | <i>Pyrrhopappus pauciflorus</i> (D. Don) DC.                                           | <i>Pyrrhopappus multicaulis</i> DC.                                 |
| Asteraceae | RACO3       | <i>Ratibida columnifera</i> (Nutt.) Woot. & Standl.                                    | <i>Ratibida columnifera</i> (Nutt.) Woot. & Standl.                 |
| Asteraceae | RATA        | <i>Ratibida tagetes</i> (James) Barnh.                                                 | <i>Ratibida tagetes</i> (James) Barnh.                              |
| Asteraceae | RUHI2       | <i>Rudbeckia hirta</i> L.                                                              | <i>Rudbeckia hirta</i> L.                                           |
| Asteraceae | RULA3       | <i>Rudbeckia laciniata</i> L.                                                          | <i>Rudbeckia laciniata</i> L.                                       |
| Asteraceae | SAAB        | <i>Sanvitalia abertii</i> Gray                                                         | <i>Sanvitalia abertii</i> Gray                                      |
| Asteraceae | SEAR3       | <i>Senecio arizonicus</i> Greene                                                       | <i>Senecio arizonicus</i> Greene                                    |
| Asteraceae | SEAT        | <i>Senecio atratus</i> Greene                                                          | <i>Senecio atratus</i> Greene                                       |
| Asteraceae | SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i> Gray                                    | <i>Senecio bigelovii</i> var. <i>bigelovii</i> Gray                 |
| Asteraceae | SECR        | <i>Senecio crassulus</i> Gray                                                          | <i>Senecio crassulus</i> Gray                                       |
| Asteraceae | SECY        | <i>Senecio cymbalarioides</i> Buek                                                     | <i>Senecio cymbalarioides</i> Buek                                  |
| Asteraceae | SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i> Less.                                   | <i>Senecio douglasii</i> var. <i>longilobus</i> (Benth.) L. Benson  |
| Asteraceae | SEERM       | <i>Senecio eremophilus</i> var. <i>macdougallii</i> (Heller) Cronq.                    | <i>Senecio eremophilus</i> var. <i>macdougallii</i> (Heller) Cronq. |
| Asteraceae | SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i> Gray                              | <i>Senecio eurypterus</i> Greenm.                                   |
| Asteraceae | SEFE        | <i>Senecio fendleri</i> Gray                                                           | <i>Senecio fendleri</i> Gray                                        |
| Asteraceae | SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> (Greenm. ex Rydb.) Welsh         | <i>Senecio multicapitatus</i> Greenm. ex Rydb.                      |
| Asteraceae | SEMU3       | <i>Senecio multilobatus</i> Torr. & Gray ex Gray                                       | <i>Senecio multilobatus</i> Torr. & Gray ex Gray                    |
| Asteraceae | SENE4       | <i>Senecio neomexicanus</i> Gray                                                       | <i>Senecio neomexicanus</i> Gray                                    |
| Asteraceae | SEPA5       | <i>Senecio pauperculus</i> Michx.                                                      | <i>Senecio pauperculus</i> Michx.                                   |
| Asteraceae | SEPS2       | <i>Senecio pseud aureus</i> Rydb.                                                      | <i>Senecio pseud aureus</i> Rydb.                                   |
| Asteraceae | SESP3       | <i>Senecio spartioides</i> Torr. & Gray                                                | <i>Senecio spartioides</i> Torr. & Gray                             |
| Asteraceae | SETR        | <i>Senecio triangularis</i> Hook.                                                      | <i>Senecio triangularis</i> Hook.                                   |
| Asteraceae | SEWE2       | <i>Senecio wernerifolius</i> (Gray) Gray                                               | <i>Senecio wernerifolius</i> (Gray) Gray                            |
| Asteraceae | SEWO        | <i>Senecio wootonii</i> Greene                                                         | <i>Senecio wootonii</i> Greene                                      |
| Asteraceae | SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i> Torr. & Gray                             | <i>Solidago altissima</i> L.                                        |
| Asteraceae | SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i> L.                                   | <i>Solidago canadensis</i> var. <i>canadensis</i> L.                |
| Asteraceae | SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> Rydb.                            | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> Rydb.         |
| Asteraceae | SOMO        | <i>Solidago mollis</i> Bartl.                                                          | <i>Solidago mollis</i> Bartl.                                       |

# FAMILY CON'T

| Family        | USDA Symbol | USDA NRCS PLANTS                                                                      | Martin and Hutchins (1980)                                                            |
|---------------|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Asteraceae    | SOMU        | <i>Solidago multiradiata</i> Ait.                                                     | <i>Solidago multiradiata</i> Ait.                                                     |
| Asteraceae    | EUOC4       | <i>Euthamia occidentalis</i> Nutt.                                                    | <i>Solidago occidentalis</i> (Nutt.) Torr. & Gray                                     |
| Asteraceae    | SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i> Porter                                   | <i>Solidago pallida</i> (Porter) Rydb.                                                |
| Asteraceae    | PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i> (Nutt.) Greene                            | <i>Solidago petradoria</i> Blake                                                      |
| Asteraceae    | SOVE6       | <i>Solidago velutina</i> DC.                                                          | <i>Solidago sparsiflora</i> Gray                                                      |
| Asteraceae    | SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> Kunth                 | <i>Solidago spathulata</i> var. <i>neomexicana</i> (Gray) Cronq.                      |
| Asteraceae    | SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i> Gray                                    | <i>Solidago wrightii</i> var. <i>wrightii</i> Gray                                    |
| Asteraceae    | SOAS        | <i>Sonchus asper</i> (L.) Hill                                                        | <i>Sonchus asper</i> (L.) Hill                                                        |
| Asteraceae    | SOOL        | <i>Sonchus oleraceus</i> L.                                                           | <i>Sonchus oleraceus</i> L.                                                           |
| Asteraceae    | STPA4       | <i>Stephanomeria pauciflora</i> (Torr.) A. Nels.                                      | <i>Stephanomeria pauciflora</i> (Torr.) A. Nels.                                      |
| Asteraceae    | STTE2       | <i>Stephanomeria tenuifolia</i> (Raf.) Hall                                           | <i>Stephanomeria tenuifolia</i> (Raf.) Hall                                           |
| Asteraceae    | TALA2       | <i>Taraxacum laevigatum</i> (Willd.) DC.                                              | <i>Taraxacum laevigatum</i> (Willd.) DC.                                              |
| Asteraceae    | TAOF        | <i>Taraxacum officinale</i> G.H. Weber ex Wiggers                                     | <i>Taraxacum officinale</i> G.H. Weber ex Wiggers                                     |
| Asteraceae    | TECA2       | <i>Tetradymia canescens</i> DC.                                                       | <i>Tetradymia canescens</i> DC.                                                       |
| Asteraceae    | TECA2       | <i>Tetradymia canescens</i> DC.                                                       | <i>Tetradymia canescens</i> var. <i>inermis</i> (Rydb.) Payson                        |
| Asteraceae    | THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i> (Rydb.) Shinnars                | <i>Thelesperma filifolium</i> var. <i>intermedium</i> (Rydb.) Shinnars                |
| Asteraceae    | THME        | <i>Thelesperma megapotamicum</i> (Spreng.) Kuntze                                     | <i>Thelesperma megapotamicum</i> (Spreng.) Kuntze                                     |
| Asteraceae    | THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i> (Hook.) Gray                     | <i>Thelesperma trifidum</i> (Poir.) Britt.                                            |
| Asteraceae    | TOAN        | <i>Townsendia annua</i> Beaman                                                        | <i>Townsendia annua</i> Beaman                                                        |
| Asteraceae    | TOEX        | <i>Townsendia eximia</i> Gray                                                         | <i>Townsendia eximia</i> Gray                                                         |
| Asteraceae    | TOFO        | <i>Townsendia formosa</i> Greene                                                      | <i>Townsendia formosa</i> Greene                                                      |
| Asteraceae    | TOIN        | <i>Townsendia incana</i> Nutt.                                                        | <i>Townsendia incana</i> Nutt.                                                        |
| Asteraceae    | TOEX2       | <i>Townsendia exscapa</i> (Richards.) Porter                                          | <i>Townsendia exscapa</i> (Richards.) Porter                                          |
| Asteraceae    | TRDU        | <i>Tragopogon dubius</i> Scop.                                                        | <i>Tragopogon dubius</i> Scop.                                                        |
| Asteraceae    | TRPR        | <i>Tragopogon pratensis</i> L.                                                        | <i>Tragopogon pratensis</i> L.                                                        |
| Asteraceae    | VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> (Cav.) Benth. & Hook. f. ex Gray | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> (Cav.) Benth. & Hook. f. ex Gray |
| Asteraceae    | VICO        | <i>Viguiera cordifolia</i> Gray                                                       | <i>Viguiera cordifolia</i> Gray                                                       |
| Asteraceae    | HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i> Nutt.                             | <i>Viguiera multiflora</i> (Nutt.) Blake                                              |
| Asteraceae    | XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i> (P. Mill.) Torr. & Gray              | <i>Xanthium strumarium</i> var. <i>canadense</i> (P. Mill.) Torr. & Gray              |
| Asteraceae    | ZIGR        | <i>Zinnia grandiflora</i> Nutt.                                                       | <i>Zinnia grandiflora</i> Nutt.                                                       |
| Berberidaceae | BEFE        | <i>Berberis fendleri</i> Gray                                                         | <i>Berberis fendleri</i> Gray                                                         |
| Berberidaceae | MARE11      | <i>Mahonia repens</i> (Lindl.) G. Don                                                 | <i>Berberis repens</i> Lindl.                                                         |
| Betulaceae    | ALOB2       | <i>Alnus oblongifolia</i> Torr.                                                       | <i>Alnus oblongifolia</i> Torr.                                                       |
| Betulaceae    | ALINT       | <i>Alnus incana</i> ssp. <i>tenuifolia</i> (Nutt.) Breitung                           | <i>Alnus tenuifolia</i> Nutt.                                                         |
| Betulaceae    | BEOC2       | <i>Betula occidentalis</i> Hook.                                                      | <i>Betula occidentalis</i> Hook.                                                      |
| Boraginaceae  | CRFE3       | <i>Cryptantha fendleri</i> (Gray) Greene                                              | <i>Cryptantha fendleri</i> (Gray) Greene                                              |
| Boraginaceae  | CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i> Cronq.                                  | <i>Cryptantha jamesii</i> (Torr.) Payson                                              |
| Boraginaceae  | CRM15       | <i>Cryptantha minima</i> Rydb.                                                        | <i>Cryptantha minima</i> Rydb.                                                        |
| Boraginaceae  | HAFL2       | <i>Hackelia floribunda</i> (Lehm.) I.M. Johnston                                      | <i>Hackelia floribunda</i> (Lehm.) I.M. Johnston                                      |

# FAMILY CON'T

| Family       | USDA Symbol | USDA NRCS PLANTS                                                                | Martin and Hutchins (1980)                                           |
|--------------|-------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Boraginaceae | HABE3       | <i>Hackelia besseyi</i> (Rydb.) J.L. Gentry                                     | <i>Hackelia grisea</i> (Woot. & Standl.) I.M. Johnston               |
| Boraginaceae | HAPI2       | <i>Hackelia pinetorum</i> (Greene ex Gray) I.M. Johnston                        | <i>Hackelia pinetorum</i> (Greene ex Gray) I.M. Johnston             |
| Boraginaceae | LASQ        | <i>Lappula squarrosa</i> (Retz.) Dumort.                                        | <i>Lappula squarrosa</i> (Retz.) Dumort.                             |
| Boraginaceae | LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i> (S. Wats.) Greene          | <i>Lappula redowskii</i> auct. non (Homem.) Greene                   |
| Boraginaceae | LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i> (Gray) Higgins                 | <i>Lappula texana</i> (Scheele) Britt.                               |
| Boraginaceae | LICO7       | <i>Lithospermum cobrense</i> Greene                                             | <i>Lithospermum cobrense</i> Greene                                  |
| Boraginaceae | LIIN2       | <i>Lithospermum incisum</i> Lehm.                                               | <i>Lithospermum incisum</i> Lehm.                                    |
| Boraginaceae | LIMU3       | <i>Lithospermum multiflorum</i> Torr. ex Gray                                   | <i>Lithospermum multiflorum</i> Torr. ex Gray                        |
| Boraginaceae | MEBR        | <i>Mertensia brevistyla</i> S. Wats.                                            | <i>Mertensia brevistyla</i> S. Wats.                                 |
| Boraginaceae | MEFR2       | <i>Mertensia franciscana</i> Heller                                             | <i>Mertensia franciscana</i> Heller                                  |
| Boraginaceae | MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i> (S. Wats.) Higgins              | <i>Mertensia lanceolata</i> var. <i>fendleri</i> (Gray) Gray         |
| Boraginaceae | MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> (Pursh) DC.                  | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> (Pursh) DC.       |
| Brassicaceae | ARDI2       | <i>Arabis X divaricarpa</i> A. Nels. (pro sp.)                                  | <i>Arabis X divaricarpa</i> A. Nels. (pro sp.)                       |
| Brassicaceae | ARDR        | <i>Arabis drummondii</i> Gray                                                   | <i>Arabis drummondii</i> Gray                                        |
| Brassicaceae | ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i> (S. Wats.) Greene                   | <i>Arabis fendleri</i> var. <i>fendleri</i> (S. Wats.) Greene        |
| Brassicaceae | ARGL        | <i>Arabis glabra</i> (L.) Bernh.                                                | <i>Arabis glabra</i> (L.) Bernh.                                     |
| Brassicaceae | ARHIP       | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i> (M. Hopkins) Rollins               | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i> (M. Hopkins) Rollins    |
| Brassicaceae | ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i> (Graham) Rydb.                 | <i>Arabis holboellii</i> var. <i>retrofracta</i> (Graham) Rydb.      |
| Brassicaceae | ARPE2       | <i>Arabis perennans</i> S. Wats.                                                | <i>Arabis perennans</i> S. Wats.                                     |
| Brassicaceae | BRJU        | <i>Brassica juncea</i> (L.) Czern.                                              | <i>Brassica juncea</i> (L.) Czern.                                   |
| Brassicaceae | BRNI        | <i>Brassica nigra</i> (L.) W.D.J. Koch                                          | <i>Brassica nigra</i> (L.) W.D.J. Koch                               |
| Brassicaceae | CAMI2       | <i>Camelina microcarpa</i> DC.                                                  | <i>Camelina microcarpa</i> DC.                                       |
| Brassicaceae | CABU2       | <i>Capsella bursa-pastoris</i> (L.) Medik.                                      | <i>Capsella bursa-pastoris</i> (L.) Medik.                           |
| Brassicaceae | CACO6       | <i>Cardamine cordifolia</i> Gray                                                | <i>Cardamine cordifolia</i> Gray                                     |
| Brassicaceae | CADR        | <i>Cardaria draba</i> (L.) Desv.                                                | <i>Cardaria draba</i> (L.) Desv.                                     |
| Brassicaceae | DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i> (Greene) O.E. Schulz               | <i>Descurainia obtusa</i> ssp. <i>obtusa</i> (Greene) O.E. Schulz    |
| Brassicaceae | DEPI        | <i>Descurainia pinnata</i> (Walt.) Britt.                                       | <i>Descurainia pinnata</i> (Walt.) Britt.                            |
| Brassicaceae | DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i> (Bernh. ex Fisch. & C.A. Mey.) Dom | <i>Descurainia richardsonii</i> O.E. Schulz                          |
| Brassicaceae | DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i> (Engelm.) Kartesz & Gandhi         | <i>Descurainia richardsonii</i> ssp. <i>incisa</i> (Engelm.) Detling |
| Brassicaceae | DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i> (Greene) Kartesz & Gandhi         | <i>Descurainia richardsonii</i> ssp. <i>procera</i> (Greene) Detling |
| Brassicaceae | DESO2       | <i>Descurainia sophia</i> (L.) Webb ex Prantl                                   | <i>Descurainia sophia</i> (L.) Webb ex Prantl                        |
| Brassicaceae | DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i> (Rydb.) Kartesz & Gandhi          | <i>Descurainia richardsonii</i> ssp. <i>viscosa</i> (Rydb.) Detling  |
| Brassicaceae | DIWI2       | <i>Dimorphocarpa wislizeni</i> (Engelm.) Rollins                                | <i>Dithyrea wislizeni</i> Engelm.                                    |
| Brassicaceae | DRAU        | <i>Draba aurea</i> Vahl ex Homem.                                               | <i>Draba aurea</i> Vahl ex Homem.                                    |
| Brassicaceae | DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i> Greene                           | <i>Draba helleriana</i> var. <i>helleriana</i> Greene                |
| Brassicaceae | DRRE        | <i>Draba rectifurcata</i> C.L. Hitchc.                                          | <i>Draba rectifurcata</i> C.L. Hitchc.                               |
| Brassicaceae | DRRE2       | <i>Draba reptans</i> (Lam.) Fern.                                               | <i>Draba reptans</i> (Lam.) Fern.                                    |
| Brassicaceae | DRSP        | <i>Draba spectabilis</i> Greene                                                 | <i>Draba spectabilis</i> Greene                                      |
| Brassicaceae | ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i> (Dougl. ex Hook.) Greene        | <i>Erysimum asperum</i> (Nutt.) DC.                                  |

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| Family        | USDA Symbol | USDA NRCS PLANTS                                                                  | Martin and Hutchins (1980)                                                        |
|---------------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Brassicaceae  | ERCA14      | <i>Erysimum capitatum</i> (Dougl. ex Hook.) Greene                                | <i>Erysimum capitatum</i> (Dougl. ex Hook.) Greene                                |
| Brassicaceae  | ERIN7       | <i>Erysimum inconspicuum</i> (S. Wats.) MacM.                                     | <i>Erysimum inconspicuum</i> (S. Wats.) MacM.                                     |
| Brassicaceae  | LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i> (Greene) C.L. Hitchc.               | <i>Lepidium medium</i> Greene                                                     |
| Brassicaceae  | LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i> (Greene) Thellung                | <i>Lepidium medium</i> var. <i>pubescens</i> (Greene) B.L. Robins.                |
| Brassicaceae  | LEFE        | <i>Lesquerella fendleri</i> (Gray) S. Wats.                                       | <i>Lesquerella fendleri</i> (Gray) S. Wats.                                       |
| Brassicaceae  | LEIN3       | <i>Lesquerella intermedia</i> (S. Wats.) Heller                                   | <i>Lesquerella intermedia</i> (S. Wats.) Heller                                   |
| Brassicaceae  | LERE3       | <i>Lesquerella rectipes</i> Woot. & Standl.                                       | <i>Lesquerella rectipes</i> Woot. & Standl.                                       |
| Brassicaceae  | ROIS2       | <i>Rorippa islandica</i> (Oeder) Borbas                                           | <i>Rorippa islandica</i> (Oeder) Borbas                                           |
| Brassicaceae  | RONA2       | <i>Rorippa nasturtium-aquaticum</i> (L.) Hayek                                    | <i>Rorippa nasturtium-aquaticum</i> (L.) Hayek                                    |
| Brassicaceae  | ROTE2       | <i>Rorippa teres</i> (Michx.) R. Stuckey                                          | <i>Rorippa obtusa</i> (Nutt.) Britt.                                              |
| Brassicaceae  | ROPAF2      | <i>Rorippa palustris</i> ssp. <i>femaldiana</i> (Butters & Abbe) Jonsell          | <i>Rorippa palustris</i> var. <i>glabra</i> (O.E. Schulz) R. Stuckey              |
| Brassicaceae  | ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i> (Desv.) Jonsell                      | <i>Rorippa palustris</i> ssp. <i>hispida</i> (Desv.) Jonsell                      |
| Brassicaceae  | ROSI2       | <i>Rorippa sinuata</i> (Nutt.) A.S. Hitchc.                                       | <i>Rorippa sinuata</i> (Nutt.) A.S. Hitchc.                                       |
| Brassicaceae  | ROSY        | <i>Rorippa sylvestris</i> (L.) Bess.                                              | <i>Rorippa sylvestris</i> (L.) Bess.                                              |
| Brassicaceae  | ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i> (Jepson) Rollins                     | <i>Rorippa truncata</i> (Jepson) R. Stuckey                                       |
| Brassicaceae  | SIAL2       | <i>Sisymbrium altissimum</i> L.                                                   | <i>Sisymbrium altissimum</i> L.                                                   |
| Brassicaceae  | SIIR        | <i>Sisymbrium irio</i> L.                                                         | <i>Sisymbrium irio</i> L.                                                         |
| Brassicaceae  | SCLI        | <i>Schoenocrambe linifolia</i> (Nutt.) Greene                                     | <i>Sisymbrium linifolium</i> (Nutt.) Nutt. ex Torr. & Gray                        |
| Brassicaceae  | STPI        | <i>Stanleya pinnata</i> (Pursh) Britt.                                            | <i>Stanleya pinnata</i> (Pursh) Britt.                                            |
| Brassicaceae  | STCO6       | <i>Streptanthus cordatus</i> Nutt.                                                | <i>Streptanthus cordatus</i> Nutt.                                                |
| Brassicaceae  | THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i> (Nutt.) Endl. ex Walp. | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i> (Nutt.) Endl. ex Walp. |
| Brassicaceae  | THWR        | <i>Thelypodium wrightii</i> Gray                                                  | <i>Thelypodium wrightii</i> Gray                                                  |
| Brassicaceae  | THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i> L.                                   | <i>Thlaspi alpestre</i> auct. non L.                                              |
| Cactaceae     | ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i> (Nutt.) Buxbaum                    | <i>Coryphantha vivipara</i> (Nutt.) Britt. & Rose                                 |
| Cactaceae     | ECFE        | <i>Echinocereus fendleri</i> (Engelm.) F. Seitz                                   | <i>Echinocereus fendleri</i> (Engelm.) F. Seitz                                   |
| Cactaceae     | ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> Engelm.           | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> Engelm.           |
| Cactaceae     | ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i> Engelm.                       | <i>Echinocereus coccineus</i> var. <i>coccineus</i> Engelm.                       |
| Cactaceae     | ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i> Engelm.                 | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i> Engelm.                 |
| Cactaceae     | MAWR2       | <i>Mammillaria wrightii</i> Engelm.                                               | <i>Mammillaria wrightii</i> Engelm.                                               |
| Cactaceae     | OPCL        | <i>Opuntia clavata</i> Engelm.                                                    | <i>Opuntia clavata</i> Engelm.                                                    |
| Cactaceae     | OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i> Engelm. & Bigelow ex Engelm.         | <i>Opuntia erinacea</i> var. <i>erinacea</i> Engelm. & Bigelow ex Engelm.         |
| Cactaceae     | OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i> (Engelm.) L. Benson                 | <i>Opuntia erinacea</i> var. <i>utahensis</i> (Engelm.) L. Benson                 |
| Cactaceae     | OPIM        | <i>Opuntia imbricata</i> (Haw.) DC.                                               | <i>Opuntia imbricata</i> (Haw.) DC.                                               |
| Cactaceae     | OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i> Engelm.                          | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i> Engelm.                          |
| Cactaceae     | OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> Engelm.                        | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> Engelm.                        |
| Cactaceae     | OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i> Salm-Dyck                      | <i>Opuntia phaeacantha</i> var. <i>discata</i> (Griffiths) L. Benson & Walkington |
| Cactaceae     | OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> Haw.                           | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> Haw.                           |
| Cactaceae     | SCPA10      | <i>Sclerocactus papyracanthus</i> (Engelm.) N.P. Taylor                           | <i>Pediocactus papyracanthus</i> (Engelm.) L. Benson                              |
| Campanulaceae | CAPA10      | <i>Campanula parryi</i> Gray                                                      | <i>Campanula parryi</i> Gray                                                      |

# FAMILY CON'T

| Family          | USDA Symbol | USDA NRCS PLANTS                                                          | Martin and Hutchins (1980)                                                    |
|-----------------|-------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Campanulaceae   | CARO2       | <i>Campanula rotundifolia</i> L.                                          | <i>Campanula rotundifolia</i> L.                                              |
| Campanulaceae   | LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i> (Lam.) McVaugh             | <i>Lobelia cardinalis</i> ssp. <i>graminea</i> (Lam.) McVaugh                 |
| Campanulaceae   | TRPE4       | <i>Triodanis perfoliata</i> (L.) Nieuwl.                                  | <i>Triodanis perfoliata</i> (L.) Nieuwl.                                      |
| Cannabaceae     | HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i> E. Small                    | <i>Humulus lupulus</i> ssp. <i>americanus</i> (Nutt.) A. & D. Love            |
| Capparaceae     | CLSE        | <i>Cleome serrulata</i> Pursh                                             | <i>Cleome serrulata</i> Pursh                                                 |
| Capparaceae     | PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i> (Torr. & Gray) Iltis | <i>Polanisia trachysperma</i> Torr. & Gray                                    |
| Caprifoliaceae  | LOIN5       | <i>Lonicera involucrata</i> Banks ex Spreng.                              | <i>Lonicera involucrata</i> Banks ex Spreng.                                  |
| Caprifoliaceae  | SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i> (Gray) McMinn            | <i>Sambucus melanocarpa</i> Gray                                              |
| Caprifoliaceae  | SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i> L.                          | <i>Sambucus microbotrys</i> Rydb.                                             |
| Caprifoliaceae  | SYOC        | <i>Symphoricarpos occidentalis</i> Hook.                                  | <i>Symphoricarpos occidentalis</i> Hook.                                      |
| Caprifoliaceae  | SYOR2       | <i>Symphoricarpos oreophilus</i> Gray                                     | <i>Symphoricarpos oreophilus</i> Gray                                         |
| Caprifoliaceae  | SYOR        | <i>Symphoricarpos orbiculatus</i> Moench                                  | <i>Symphoricarpos orbiculatus</i> Moench                                      |
| Caprifoliaceae  | VILE        | <i>Viburnum lentago</i> L.                                                | <i>Viburnum lentago</i> L.                                                    |
| Caryophyllaceae | ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i> (Gray) Maguire              | <i>Arenaria confusa</i> Rydb.                                                 |
| Caryophyllaceae | ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i> Gray                        | <i>Arenaria fendleri</i> var. <i>fendleri</i> Gray                            |
| Caryophyllaceae | ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i> (Maguire) Maguire         | <i>Arenaria fendleri</i> var. <i>brevifolia</i> (Maguire) Maguire             |
| Caryophyllaceae | MOMA3       | <i>Moehringia macrophylla</i> (Hook.) Fenzl                               | <i>Arenaria macrophylla</i> Hook.                                             |
| Caryophyllaceae | CEAR4       | <i>Cerastium arvense</i> L.                                               | <i>Cerastium arvense</i> L.                                                   |
| Caryophyllaceae | CEBR3       | <i>Cerastium brachypodum</i> (Engelm. ex Gray) B.L. Robins.               | <i>Cerastium brachypodum</i> (Engelm. ex Gray) B.L. Robins.                   |
| Caryophyllaceae | CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i> (Hartman) Greuter & Burdet  | <i>Cerastium vulgatum</i> L. 1762, non 1755                                   |
| Caryophyllaceae | SAOF4       | <i>Saponaria officinalis</i> L.                                           | <i>Saponaria officinalis</i> L.                                               |
| Caryophyllaceae | SIAN2       | <i>Silene antirrhina</i> L.                                               | <i>Silene antirrhina</i> L.                                                   |
| Caryophyllaceae | SINO        | <i>Silene noctiflora</i> L.                                               | <i>Silene noctiflora</i> L.                                                   |
| Caryophyllaceae | SISC7       | <i>Silene scouleri</i> Hook.                                              | <i>Silene scouleri</i> Hook.                                                  |
| Caryophyllaceae | SPSAS       | <i>Spergularia salina</i> var. <i>salina</i> J. & K. Presl                | <i>Spergularia marina</i> (L.) Griseb.                                        |
| Caryophyllaceae | PSJA2       | <i>Pseudostellaria jamesiana</i> (Torr.) W.A. Weber & R.L. Hartman        | <i>Stellaria jamesiana</i> Torr.                                              |
| Caryophyllaceae | STLO        | <i>Stellaria longifolia</i> Muhl. ex Willd.                               | <i>Stellaria longifolia</i> Muhl. ex Willd.                                   |
| Caryophyllaceae | STLO2       | <i>Stellaria longipes</i> Goldie                                          | <i>Stellaria longipes</i> Goldie                                              |
| Celastraceae    | PAMY        | <i>Paxistima myrsinites</i> (Pursh) Raf.                                  | <i>Paxistima myrsinites</i> (Pursh) Raf.                                      |
| Chenopodiaceae  | ATCA2       | <i>Atriplex canescens</i> (Pursh) Nutt.                                   | <i>Atriplex canescens</i> (Pursh) Nutt.                                       |
| Chenopodiaceae  | ATPA4       | <i>Atriplex patula</i> L.                                                 | <i>Atriplex patula</i> L.                                                     |
| Chenopodiaceae  | BAHY        | <i>Bassia hyssopifolia</i> (Pallas) Kuntz                                 | <i>Bassia hyssopifolia</i> (Pallas) Kuntz                                     |
| Chenopodiaceae  | CHAL6       | <i>Chenopodium albescens</i> Small                                        | <i>Chenopodium albescens</i> Small                                            |
| Chenopodiaceae  | CHAL7       | <i>Chenopodium album</i> L.                                               | <i>Chenopodium album</i> L.                                                   |
| Chenopodiaceae  | CHBE4       | <i>Chenopodium berlandieri</i> Moq.                                       | <i>Chenopodium berlandieri</i> Moq.                                           |
| Chenopodiaceae  | CHCA4       | <i>Chenopodium capitatum</i> (L.) Ambrosi                                 | <i>Chenopodium capitatum</i> (L.) Ambrosi                                     |
| Chenopodiaceae  | CHCY        | <i>Chenopodium cycloides</i> A. Nels.                                     | <i>Chenopodium cycloides</i> A. Nels.                                         |
| Chenopodiaceae  | CHDE        | <i>Chenopodium desiccatum</i> A. Nels.                                    | <i>Chenopodium desiccatum</i> A. Nels.                                        |
| Chenopodiaceae  | CHPR5       | <i>Chenopodium pratericola</i> Rydb.                                      | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i> (J. Murr) H.A. Wahl |
| Chenopodiaceae  | CHFR3       | <i>Chenopodium fremontii</i> S. Wats.                                     | <i>Chenopodium fremontii</i> S. Wats.                                         |

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| Family         | USDA Symbol | USDA NRCS PLANTS                                         | Martin and Hutchins (1980)                                             |
|----------------|-------------|----------------------------------------------------------|------------------------------------------------------------------------|
| Chenopodiaceae | CHS12       | <i>Chenopodium simplex</i> (Torr.) Raf.                  | <i>Chenopodium gigantospermum</i> Aellen                               |
| Chenopodiaceae | CHGL3       | <i>Chenopodium glaucum</i> L.                            | <i>Chenopodium glaucum</i> L.                                          |
| Chenopodiaceae | CHGR2       | <i>Chenopodium graveolens</i> Willd.                     | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i> (Aellen) Aellen |
| Chenopodiaceae | CHIN2       | <i>Chenopodium incanum</i> (S. Wats.) Heller             | <i>Chenopodium incanum</i> (S. Wats.) Heller                           |
| Chenopodiaceae | CHLE4       | <i>Chenopodium leptophyllum</i> (Moq.) Nutt. ex S. Wats. | <i>Chenopodium leptophyllum</i> (Moq.) Nutt. ex S. Wats.               |
| Chenopodiaceae | CHRU        | <i>Chenopodium rubrum</i> L.                             | <i>Chenopodium rubrum</i> L.                                           |
| Chenopodiaceae | CHWA        | <i>Chenopodium watsonii</i> A. Nels.                     | <i>Chenopodium watsonii</i> A. Nels.                                   |
| Chenopodiaceae | KRLA2       | <i>Krascheninnikovia lanata</i> (Pursh) Guldenstaedt     | <i>Eurotia lanata</i> (Pursh) Moq.                                     |
| Chenopodiaceae | KOSC        | <i>Kochia scoparia</i> (L.) Schrad.                      | <i>Kochia scoparia</i> (L.) Schrad.                                    |
| Chenopodiaceae | SAVE4       | <i>Sarcobatus vermiculatus</i> (Hook.) Torr.             | <i>Sarcobatus vermiculatus</i> (Hook.) Torr.                           |
| Clusiaceae     | HYFO4       | <i>Hypericum formosum</i> H.B.K.                         | <i>Hypericum formosum</i> H.B.K.                                       |
| Commelinaceae  | CODI4       | <i>Commelina dianthifolia</i> Delile                     | <i>Commelina dianthifolia</i> Delile                                   |
| Convolvulaceae | COAR4       | <i>Convolvulus arvensis</i> L.                           | <i>Convolvulus arvensis</i> L.                                         |
| Convolvulaceae | CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i> (L.) R. Br.  | <i>Convolvulus sepium</i> L.                                           |
| Convolvulaceae | EVNU        | <i>Evolvulus nuttallianus</i> J.A. Schultes              | <i>Evolvulus pilosus</i> Nutt.                                         |
| Convolvulaceae | IPCO3       | <i>Ipomoea coccinea</i> L.                               | <i>Ipomoea coccinea</i> L.                                             |
| Convolvulaceae | IPHE        | <i>Ipomoea hederacea</i> Jacq.                           | <i>Ipomoea hederacea</i> Jacq.                                         |
| Cornaceae      | COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i> L.             | <i>Cornus stolonifera</i> Michx.                                       |
| Crassulaceae   | SECO        | <i>Sedum cockerellii</i> Britt.                          | <i>Sedum cockerellii</i> Britt.                                        |
| Cucurbitaceae  | CUFO        | <i>Cucurbita foetidissima</i> Kunth                      | <i>Cucurbita foetidissima</i> Kunth                                    |
| Cupressaceae   | JUCO6       | <i>Juniperus communis</i> L.                             | <i>Juniperus communis</i> L.                                           |
| Cupressaceae   | JUDE2       | <i>Juniperus deppeana</i> Steud.                         | <i>Juniperus deppeana</i> Steud.                                       |
| Cupressaceae   | JUMO        | <i>Juniperus monosperma</i> (Engelm.) Sarg.              | <i>Juniperus monosperma</i> (Engelm.) Sarg.                            |
| Cupressaceae   | JUSC2       | <i>Juniperus scopulorum</i> Sarg.                        | <i>Juniperus scopulorum</i> Sarg.                                      |
| Cuscutaceae    | CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i> Engelm.   | <i>Cuscuta campestris</i> Yuncker                                      |
| Cuscutaceae    | CUUM        | <i>Cuscuta umbellata</i> Kunth                           | <i>Cuscuta umbellata</i> Kunth                                         |
| Cyperaceae     | CAAQ        | <i>Carex aquatilis</i> Wahlenb.                          | <i>Carex aquatilis</i> Wahlenb.                                        |
| Cyperaceae     | CABE3       | <i>Carex bella</i> Bailey                                | <i>Carex bella</i> Bailey                                              |
| Cyperaceae     | CABO2       | <i>Carex bolanderi</i> Olney                             | <i>Carex bolanderi</i> Olney                                           |
| Cyperaceae     | CABR10      | <i>Carex brevior</i> (Dewey) Mackenzie                   | <i>Carex brevior</i> (Dewey) Mackenzie                                 |
| Cyperaceae     | CACA11      | <i>Carex canescens</i> L.                                | <i>Carex canescens</i> L.                                              |
| Cyperaceae     | CADO2       | <i>Carex douglasii</i> Boott                             | <i>Carex douglasii</i> Boott                                           |
| Cyperaceae     | CADU6       | <i>Carex duriuscula</i> C.A. Mey.                        | <i>Carex eleocharis</i> Bailey                                         |
| Cyperaceae     | CAMI7       | <i>Carex microptera</i> Mackenzie                        | <i>Carex festivella</i> Mackenzie                                      |
| Cyperaceae     | CAFO3       | <i>Carex foenea</i> Willd.                               | <i>Carex foenea</i> Willd.                                             |
| Cyperaceae     | CAGE        | <i>Carex geophila</i> Mackenzie                          | <i>Carex geophila</i> Mackenzie                                        |
| Cyperaceae     | CAHY4       | <i>Carex hystericina</i> Muhl. ex Willd.                 | <i>Carex hystericina</i> Muhl. ex Willd.                               |
| Cyperaceae     | CAIN11      | <i>Carex interior</i> Bailey                             | <i>Carex interior</i> Bailey                                           |
| Cyperaceae     | CALA30      | <i>Carex lanuginosa</i> Michx.                           | <i>Carex lanuginosa</i> Michx.                                         |
| Cyperaceae     | CANE2       | <i>Carex nebraskensis</i> Dewey                          | <i>Carex nebraskensis</i> Dewey                                        |

# FAMILY CON'T

| Family           | USDA Symbol | USDA NRCS PLANTS                                                          | Martin and Hutchins (1980)                                               |
|------------------|-------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Cyperaceae       | CAOC2       | <i>Carex occidentalis</i> Bailey                                          | <i>Carex occidentalis</i> Bailey                                         |
| Cyperaceae       | CAPR5       | <i>Carex praegracilis</i> W. Boott                                        | <i>Carex praegracilis</i> W. Boott                                       |
| Cyperaceae       | CASC11      | <i>Carex scoparia</i> Schkuhr ex Willd.                                   | <i>Carex scoparia</i> Schkuhr ex Willd.                                  |
| Cyperaceae       | CAST5       | <i>Carex stipata</i> Muhl. ex Willd.                                      | <i>Carex stipata</i> Muhl. ex Willd.                                     |
| Cyperaceae       | CAXE        | <i>Carex xerantica</i> Bailey                                             | <i>Carex xerantica</i> Bailey                                            |
| Cyperaceae       | CYSQ        | <i>Cyperus squarrosus</i> L.                                              | <i>Cyperus aristatus</i> Rottb.                                          |
| Cyperaceae       | CYFE2       | <i>Cyperus fendlerianus</i> Boeckl.                                       | <i>Cyperus fendlerianus</i> Boeckl.                                      |
| Cyperaceae       | CYBI6       | <i>Cyperus bipartitus</i> Torr.                                           | <i>Cyperus rivularis</i> Kunth                                           |
| Cyperaceae       | ELPA3       | <i>Eleocharis palustris</i> (L.) Roemer & J.A. Schultes                   | <i>Eleocharis macrostachya</i> Britt.                                    |
| Cyperaceae       | SCCA11      | <i>Schoenoplectus californicus</i> (C.A. Mey.) Palla                      | <i>Scirpus californicus</i> (C.A. Mey.) Steud.                           |
| Dennstaedtiaceae | PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i> Underwood                | <i>Pteridium aquilinum</i> var. <i>pubescens</i> Underwood               |
| Dryopteridaceae  | ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i> (Rupr.) C. Christens. | <i>Athyrium filix-femina</i> var. <i>californicum</i> Butters            |
| Dryopteridaceae  | CYFR2       | <i>Cystopteris fragilis</i> (L.) Bernh.                                   | <i>Cystopteris fragilis</i> (L.) Bernh.                                  |
| Dryopteridaceae  | DRFI2       | <i>Dryopteris filix-mas</i> (L.) Schott                                   | <i>Dryopteris filix-mas</i> (L.) Schott                                  |
| Dryopteridaceae  | WOOR        | <i>Woodsia oregana</i> D.C. Eat.                                          | <i>Woodsia oregana</i> D.C. Eat.                                         |
| Elaeagnaceae     | ELAN        | <i>Elaeagnus angustifolia</i> L.                                          | <i>Elaeagnus angustifolia</i> L.                                         |
| Ephedraceae      | EPTO        | <i>Ephedra torreyana</i> S. Wats.                                         | <i>Ephedra torreyana</i> S. Wats.                                        |
| Ephedraceae      | EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i> Coville                        | <i>Ephedra viridis</i> var. <i>viridis</i> Coville                       |
| Equisetaceae     | EQAR        | <i>Equisetum arvense</i> L.                                               | <i>Equisetum arvense</i> L.                                              |
| Equisetaceae     | EQHY        | <i>Equisetum hyemale</i> L.                                               | <i>Equisetum hyemale</i> L.                                              |
| Equisetaceae     | EQLA        | <i>Equisetum laevigatum</i> A. Braun                                      | <i>Equisetum laevigatum</i> A. Braun                                     |
| Ericaceae        | ARPU5       | <i>Arctostaphylos pungens</i> Kunth                                       | <i>Arctostaphylos pungens</i> Kunth                                      |
| Ericaceae        | ARUV        | <i>Arctostaphylos uva-ursi</i> (L.) Spreng.                               | <i>Arctostaphylos uva-ursi</i> (L.) Spreng.                              |
| Ericaceae        | VAMY2       | <i>Vaccinium myrtillus</i> L.                                             | <i>Vaccinium myrtillus</i> L.                                            |
| Euphorbiaceae    | CRTE4       | <i>Croton texensis</i> (Klotzsch) Muell.-Arg.                             | <i>Croton texensis</i> (Klotzsch) Muell.-Arg.                            |
| Euphorbiaceae    | CHAL11      | <i>Chamaesyce albomarginata</i> (Torr. & Gray) Small                      | <i>Euphorbia albomarginata</i> Torr. & Gray                              |
| Euphorbiaceae    | EUDE4       | <i>Euphorbia dentata</i> Michx.                                           | <i>Euphorbia dentata</i> Michx.                                          |
| Euphorbiaceae    | EUDE4       | <i>Euphorbia dentata</i> Michx.                                           | <i>Euphorbia dentata</i> var. <i>cuphosperma</i> (Engelm.) Fern.         |
| Euphorbiaceae    | EUEX4       | <i>Euphorbia exstipulata</i> Engelm.                                      | <i>Euphorbia exstipulata</i> Engelm.                                     |
| Euphorbiaceae    | CHFE3       | <i>Chamaesyce fendleri</i> (Torr. & Gray) Small                           | <i>Chamaesyce fendleri</i> (Torr. & Gray) Small                          |
| Euphorbiaceae    | CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i> (Engelm.) Small               | <i>Euphorbia geyeri</i> Engelm.                                          |
| Euphorbiaceae    | EULU        | <i>Euphorbia lurida</i> Engelm.                                           | <i>Euphorbia lurida</i> Engelm.                                          |
| Euphorbiaceae    | CHMI8       | <i>Chamaesyce missurica</i> (Raf.) Shinnars                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> (Engelm.) L.C. Wheeler |
| Euphorbiaceae    | CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> (Pers.) Small   | <i>Euphorbia neomexicana</i> Greene                                      |
| Euphorbiaceae    | CHRE4       | <i>Chamaesyce revoluta</i> (Engelm.) Small                                | <i>Euphorbia revoluta</i> Engelm.                                        |
| Euphorbiaceae    | EURO5       | <i>Euphorbia robusta</i> (Engelm.) Small                                  | <i>Euphorbia robusta</i> (Engelm.) Small                                 |
| Euphorbiaceae    | CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> (Pers.) Small   | <i>Euphorbia serpyllifolia</i> Pers.                                     |
| Euphorbiaceae    | TRNE        | <i>Tragia nepetifolia</i> Cav.                                            | <i>Tragia nepetifolia</i> Cav.                                           |
| Fabaceae         | AMCA6       | <i>Amorpha canescens</i> Pursh                                            | <i>Amorpha canescens</i> Pursh                                           |
| Fabaceae         | AMFR        | <i>Amorpha fruticosa</i> L.                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i> Pursh                  |



# FAMILY CON'T

| Family   | USDA Symbol | USDA NRCS PLANTS                                                         | Martin and Hutchins (1980)                                               |
|----------|-------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Fabaceae | AMNA        | <i>Amorpha nana</i> Nutt.                                                | <i>Amorpha nana</i> Nutt.                                                |
| Fabaceae | ASAG2       | <i>Astragalus agrestis</i> Dougl. ex G. Don                              | <i>Astragalus agrestis</i> Dougl. ex G. Don                              |
| Fabaceae | ASAM5       | <i>Astragalus amphioxys</i> Gray                                         | <i>Astragalus amphioxys</i> Gray                                         |
| Fabaceae | ASBI2       | <i>Astragalus bisulcatus</i> (Hook.) Gray                                | <i>Astragalus bisulcatus</i> (Hook.) Gray                                |
| Fabaceae | ASCR2       | <i>Astragalus crassicaarpus</i> Nutt.                                    | <i>Astragalus crassicaarpus</i> Nutt.                                    |
| Fabaceae | ASEM2       | <i>Astragalus emoryanus</i> (Rydb.) Cory                                 | <i>Astragalus emoryanus</i> (Rydb.) Cory                                 |
| Fabaceae | ASFL2       | <i>Astragalus flexuosus</i> (Hook.) Dougl. ex G. Don                     | <i>Astragalus flexuosus</i> (Hook.) Dougl. ex G. Don                     |
| Fabaceae | ASGR3       | <i>Astragalus gracilis</i> Nutt.                                         | <i>Astragalus gracilis</i> Nutt.                                         |
| Fabaceae | ASHU2       | <i>Astragalus humistratus</i> Gray                                       | <i>Astragalus humistratus</i> Gray                                       |
| Fabaceae | ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i> (Barneby) Barneby | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i> (Barneby) Barneby |
| Fabaceae | ASLE8       | <i>Astragalus lentiginosus</i> Dougl. ex Hook.                           | <i>Astragalus lentiginosus</i> Dougl. ex Hook.                           |
| Fabaceae | ASLO3       | <i>Astragalus lonchocarpus</i> Torr.                                     | <i>Astragalus lonchocarpus</i> Torr.                                     |
| Fabaceae | ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> Nutt.          | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> Nutt.          |
| Fabaceae | ASMO7       | <i>Astragalus mollissimus</i> Torr.                                      | <i>Astragalus mollissimus</i> Torr.                                      |
| Fabaceae | ASPR5       | <i>Astragalus praelongus</i> Sheldon                                     | <i>Astragalus praelongus</i> Sheldon                                     |
| Fabaceae | ASSH3       | <i>Astragalus shortianus</i> Nutt.                                       | <i>Astragalus shortianus</i> Nutt.                                       |
| Fabaceae | DABR        | <i>Dalea brachystachya</i> Gray                                          | <i>Dalea brachystachya</i> Gray                                          |
| Fabaceae | DAFO        | <i>Dalea formosa</i> Torr.                                               | <i>Dalea formosa</i> Torr.                                               |
| Fabaceae | DALE3       | <i>Dalea leporina</i> (Ait.) Bullock                                     | <i>Dalea leporina</i> (Ait.) Bullock                                     |
| Fabaceae | DANA        | <i>Dalea nana</i> Torr. ex Gray                                          | <i>Dalea nana</i> Torr. ex Gray                                          |
| Fabaceae | DAPO3       | <i>Dalea polygonoides</i> Gray                                           | <i>Dalea polygonoides</i> Gray                                           |
| Fabaceae | DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i> (M.E. Jones) Barneby          | <i>Dalea terminalis</i> M.E. Jones                                       |
| Fabaceae | GLLE3       | <i>Glycyrrhiza lepidota</i> Pursh                                        | <i>Glycyrrhiza lepidota</i> Pursh                                        |
| Fabaceae | LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i> (Rydb.) Dom           | <i>Lathyrus arizonicus</i> Britt.                                        |
| Fabaceae | LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i> (Rydb.) Dom           | <i>Lathyrus leucanthus</i> Rydb.                                         |
| Fabaceae | LOWR        | <i>Lotus wrightii</i> (Gray) Greene                                      | <i>Lotus wrightii</i> (Gray) Greene                                      |
| Fabaceae | LUAL5       | <i>Lupinus X alpestris</i> A. Nels. (pro sp.)                            | <i>Lupinus X alpestris</i> A. Nels. (pro sp.)                            |
| Fabaceae | LUAM        | <i>Lupinus ammophilus</i> Greene                                         | <i>Lupinus ammophilus</i> Greene                                         |
| Fabaceae | LUAR3       | <i>Lupinus argenteus</i> Pursh                                           | <i>Lupinus argenteus</i> Pursh                                           |
| Fabaceae | LUBR2       | <i>Lupinus brevicaulis</i> S. Wats.                                      | <i>Lupinus brevicaulis</i> S. Wats.                                      |
| Fabaceae | LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i> (Gray) L. Phillips       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i> (Gray) L. Phillips       |
| Fabaceae | LUKI        | <i>Lupinus kingii</i> S. Wats.                                           | <i>Lupinus kingii</i> S. Wats.                                           |
| Fabaceae | LUPU        | <i>Lupinus pusillus</i> Pursh                                            | <i>Lupinus pusillus</i> Pursh                                            |
| Fabaceae | LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i> (Greene) Hess & D. Dunn | <i>Lupinus rubricaulis</i> Greene                                        |
| Fabaceae | MELU        | <i>Medicago lupulina</i> L.                                              | <i>Medicago lupulina</i> L.                                              |
| Fabaceae | MESA        | <i>Medicago sativa</i> L.                                                | <i>Medicago sativa</i> L.                                                |
| Fabaceae | MEOF        | <i>Melilotus officinalis</i> (L.) Lam.                                   | <i>Melilotus albus</i> Medik.                                            |
| Fabaceae | MEIN2       | <i>Melilotus indicus</i> (L.) All.                                       | <i>Melilotus indicus</i> (L.) All.                                       |
| Fabaceae | MEOF        | <i>Melilotus officinalis</i> (L.) Lam.                                   | <i>Melilotus officinalis</i> (L.) Lam.                                   |
| Fabaceae | OXLA3       | <i>Oxytropis lambertii</i> Pursh                                         | <i>Oxytropis lambertii</i> Pursh                                         |

# FAMILY CON'T

| Family       | USDA Symbol | USDA NRCS PLANTS                                                                | Martin and Hutchins (1980)                                   |
|--------------|-------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|
| Fabaceae     | DACAC       | <i>Dalea candida</i> var. <i>candida</i> Willd.                                 | <i>Petalostemon candidus</i> Michx.                          |
| Fabaceae     | DACOC       | <i>Dalea compacta</i> var. <i>compacta</i> Spreng.                              | <i>Petalostemon compactus</i> (Spreng.) Swezey               |
| Fabaceae     | DAEX2       | <i>Dalea exigua</i> Bameby                                                      | <i>Petalostemon exilis</i> Gray                              |
| Fabaceae     | DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i> Vent.                                | <i>Petalostemon purpureus</i> (Vent.) Rydb.                  |
| Fabaceae     | DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i> (Nutt.) Spreng.                        | <i>Petalostemon villosus</i> Nutt.                           |
| Fabaceae     | PHAN3       | <i>Phaseolus angustissimus</i> Gray                                             | <i>Phaseolus angustissimus</i> Gray                          |
| Fabaceae     | STLE6       | <i>Strophostyles leiosperma</i> (Torr. & Gray) Piper                            | <i>Phaseolus leiospermus</i> Torr. & Gray                    |
| Fabaceae     | PEHYH       | <i>Pediomelum hypogaeum</i> var. <i>hypogaeum</i> (Nutt. ex Torr. & Gray) Rydb. | <i>Psoralea hypogaea</i> Nutt. ex Torr. & Gray               |
| Fabaceae     | PSLA3       | <i>Psoralidium lanceolatum</i> (Pursh) Rydb.                                    | <i>Psoralea lanceolata</i> Pursh                             |
| Fabaceae     | PSTE5       | <i>Psoralidium tenuiflorum</i> (Pursh) Rydb.                                    | <i>Psoralea tenuiflora</i> Pursh                             |
| Fabaceae     | RONE        | <i>Robinia neomexicana</i> Gray                                                 | <i>Robinia neomexicana</i> Gray                              |
| Fabaceae     | SONU        | <i>Sophora nuttalliana</i> B.L. Turner                                          | <i>Sophora nuttalliana</i> B.L. Turner                       |
| Fabaceae     | THMO6       | <i>Thermopsis montana</i> Nutt.                                                 | <i>Thermopsis montana</i> Nutt.                              |
| Fabaceae     | THDI4       | <i>Thermopsis divaricata</i> A. Nels.                                           | <i>Thermopsis pinetorum</i> Greene                           |
| Fabaceae     | TRDA2       | <i>Trifolium dasyphyllum</i> Torr. & Gray                                       | <i>Trifolium dasyphyllum</i> Torr. & Gray                    |
| Fabaceae     | TRHY        | <i>Trifolium hybridum</i> L.                                                    | <i>Trifolium hybridum</i> L.                                 |
| Fabaceae     | TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i> (Greene) J. Gillett             | <i>Trifolium lacerum</i> Greene                              |
| Fabaceae     | TRPR2       | <i>Trifolium pratense</i> L.                                                    | <i>Trifolium pratense</i> L.                                 |
| Fabaceae     | TRCA5       | <i>Trifolium campestre</i> Schreb.                                              | <i>Trifolium procumbens</i> L. 1755, non 1753                |
| Fabaceae     | TRRE3       | <i>Trifolium repens</i> L.                                                      | <i>Trifolium repens</i> L.                                   |
| Fabaceae     | VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i> Muhl. ex Willd.                    | <i>Vicia americana</i> ssp. <i>americana</i> Muhl. ex Willd. |
| Fabaceae     | VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i> (Hook.) C.R. Gunn                      | <i>Vicia americana</i> var. <i>linearis</i> (Nutt.) S. Wats. |
| Fabaceae     | VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i> (Hook.) C.R. Gunn                      | <i>Vicia americana</i> var. <i>minor</i> Hook.               |
| Fabaceae     | VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i> Nutt.                          | <i>Vicia exigua</i> Nutt.                                    |
| Fabaceae     | VILE3       | <i>Vicia leucophaea</i> Greene                                                  | <i>Vicia leucophaea</i> Greene                               |
| Fagaceae     | QUGA        | <i>Quercus gambelii</i> Nutt.                                                   | <i>Quercus gambelii</i> Nutt.                                |
| Fagaceae     | QUGR3       | <i>Quercus grisea</i> Liebm.                                                    | <i>Quercus grisea</i> Liebm.                                 |
| Fagaceae     | QUPU        | <i>Quercus pungens</i> Liebm.                                                   | <i>Quercus pungens</i> Liebm.                                |
| Fagaceae     | QUTU2       | <i>Quercus turbinella</i> Greene                                                | <i>Quercus turbinella</i> Greene                             |
| Fagaceae     | QUPA4       | <i>Quercus X pauciloba</i> Rydb. (pro sp.)                                      | <i>Quercus undulata</i> Torr.                                |
| Fumariaceae  | COAU2       | <i>Corydalis aurea</i> Willd.                                                   | <i>Corydalis aurea</i> Willd.                                |
| Gentianaceae | CECA3       | <i>Centaurium calycosum</i> (Buckl.) Fern.                                      | <i>Centaurium calycosum</i> (Buckl.) Fern.                   |
| Gentianaceae | GEAF        | <i>Gentiana affinis</i> Griseb.                                                 | <i>Gentiana affinis</i> Griseb.                              |
| Gentianaceae | GEAF        | <i>Gentiana affinis</i> Griseb.                                                 | <i>Gentiana bigelovii</i> Gray                               |
| Gentianaceae | GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i> (Michx.) J. Gillett               | <i>Gentiana plebeja</i> Ledeb. ex Spreng.                    |
| Gentianaceae | GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i> (Michx.) J. Gillett               | <i>Gentiana strictiflora</i> (Rydb.) A. Nels.                |
| Gentianaceae | FRSP        | <i>Frasera speciosa</i> Dougl. ex Griseb.                                       | <i>Swertia radiata</i> (Kellogg) Kuntze                      |
| Geraniaceae  | ERCI6       | <i>Erodium cicutarium</i> (L.) L'Her. ex Ait.                                   | <i>Erodium cicutarium</i> (L.) L'Her. ex Ait.                |
| Geraniaceae  | GECA3       | <i>Geranium caespitosum</i> James                                               | <i>Geranium caespitosum</i> James                            |

# FAMILY CON'T

| Family          | USDA Symbol | USDA NRCS PLANTS                                                      | Martin and Hutchins (1980)                                     |
|-----------------|-------------|-----------------------------------------------------------------------|----------------------------------------------------------------|
| Geraniaceae     | GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i> (Torr. ex Gray) Dom | <i>Geranium fremontii</i> Torr. ex Gray                        |
| Geraniaceae     | GECA2       | <i>Geranium caespitosum</i> var. <i>parryi</i> (Engelm.) W.A. Weber   | <i>Geranium fremontii</i> var. <i>parryi</i> Engelm.           |
| Geraniaceae     | GERI        | <i>Geranium richardsonii</i> Fisch. & Trautv.                         | <i>Geranium richardsonii</i> Fisch. & Trautv.                  |
| Grossulariaceae | RICE        | <i>Ribes cereum</i> Dougl.                                            | <i>Ribes cereum</i> Dougl.                                     |
| Grossulariaceae | RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i> Brewer & S. Wats.         | <i>Ribes inebrians</i> Lindl.                                  |
| Grossulariaceae | RIIN2       | <i>Ribes inerme</i> Rydb.                                             | <i>Ribes inerme</i> Rydb.                                      |
| Grossulariaceae | RILE        | <i>Ribes leptanthum</i> Gray                                          | <i>Ribes leptanthum</i> Gray                                   |
| Grossulariaceae | RIMO2       | <i>Ribes montigenum</i> McClatchie                                    | <i>Ribes montigenum</i> McClatchie                             |
| Grossulariaceae | RIPI        | <i>Ribes pinetorum</i> Greene                                         | <i>Ribes pinetorum</i> Greene                                  |
| Grossulariaceae | RIWO        | <i>Ribes wolfii</i> Rothrock                                          | <i>Ribes wolfii</i> Rothrock                                   |
| Hydrangeaceae   | FERUR       | <i>Fendlera rupicola</i> var. <i>rupicola</i> Gray                    | <i>Fendlera rupicola</i> var. <i>rupicola</i> Gray             |
| Hydrangeaceae   | JAAM        | <i>Jamesia americana</i> Torr. & Gray                                 | <i>Jamesia americana</i> Torr. & Gray                          |
| Hydrangeaceae   | PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> Gray        | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> Gray |
| Hydrophyllaceae | HYFE        | <i>Hydrophyllum fendleri</i> (Gray) Heller                            | <i>Hydrophyllum fendleri</i> (Gray) Heller                     |
| Hydrophyllaceae | NADI        | <i>Nama dichotomum</i> (Ruiz & Pavon) Choisy                          | <i>Nama dichotomum</i> (Ruiz & Pavon) Choisy                   |
| Hydrophyllaceae | NAHI        | <i>Nama hispidum</i> Gray                                             | <i>Nama hispidum</i> Gray                                      |
| Hydrophyllaceae | PHCO        | <i>Phacelia coerulea</i> Greene                                       | <i>Phacelia coerulea</i> Greene                                |
| Hydrophyllaceae | PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i> (A. Nels.) Brand      | <i>Phacelia corrugata</i> A. Nels.                             |
| Hydrophyllaceae | PHHE2       | <i>Phacelia heterophylla</i> Pursh                                    | <i>Phacelia heterophylla</i> Pursh                             |
| Hydrophyllaceae | PHIN        | <i>Phacelia integrifolia</i> Torr.                                    | <i>Phacelia integrifolia</i> Torr.                             |
| Hydrophyllaceae | PHEG        | <i>Phacelia egena</i> (Greene ex Brand) Greene ex J.T. Howell         | <i>Phacelia magellanica</i> (Lam.) Coville p.p.                |
| Hydrophyllaceae | PHNE3       | <i>Phacelia neomexicana</i> Thurb. ex Torr.                           | <i>Phacelia neomexicana</i> Thurb. ex Torr.                    |
| Iridaceae       | IRMI        | <i>Iris missouriensis</i> Nutt.                                       | <i>Iris missouriensis</i> Nutt.                                |
| Iridaceae       | SIDE4       | <i>Sisyrinchium demissum</i> Greene                                   | <i>Sisyrinchium demissum</i> Greene                            |
| Iridaceae       | SIMO2       | <i>Sisyrinchium montanum</i> Greene                                   | <i>Sisyrinchium montanum</i> Greene                            |
| Juncaceae       | JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i> Engelm.                   | <i>Juncus balticus</i> var. <i>montanus</i> Engelm.            |
| Juncaceae       | JUBU        | <i>Juncus bufonius</i> L.                                             | <i>Juncus bufonius</i> L.                                      |
| Juncaceae       | JUCO2       | <i>Juncus confusus</i> Coville                                        | <i>Juncus confusus</i> Coville                                 |
| Juncaceae       | JUDR        | <i>Juncus drummondii</i> E. Mey.                                      | <i>Juncus drummondii</i> E. Mey.                               |
| Juncaceae       | JUIN2       | <i>Juncus interior</i> Wieg.                                          | <i>Juncus interior</i> Wieg.                                   |
| Juncaceae       | JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i> Torr.               | <i>Juncus longistylis</i> var. <i>longistylis</i> Torr.        |
| Juncaceae       | JUMA4       | <i>Juncus marginatus</i> Rostk.                                       | <i>Juncus marginatus</i> Rostk.                                |
| Juncaceae       | JUME4       | <i>Juncus mexicanus</i> Willd. ex J.A. & J.H. Schultes                | <i>Juncus mexicanus</i> Willd. ex J.A. & J.H. Schultes         |
| Juncaceae       | JUTE        | <i>Juncus tenuis</i> Willd.                                           | <i>Juncus tenuis</i> Willd.                                    |
| Juncaceae       | JUTO        | <i>Juncus torreyi</i> Coville                                         | <i>Juncus torreyi</i> Coville                                  |
| Juncaceae       | JUXI        | <i>Juncus xiphioides</i> E. Mey.                                      | <i>Juncus xiphioides</i> E. Mey.                               |
| Juncaceae       | LUPA4       | <i>Luzula parviflora</i> (Ehrh.) Desv.                                | <i>Luzula parviflora</i> (Ehrh.) Desv.                         |
| Lamiaceae       | AGPA        | <i>Agastache pallidiflora</i> (Heller) Rydb.                          | <i>Agastache pallidiflora</i> (Heller) Rydb.                   |
| Lamiaceae       | CLVU        | <i>Clinopodium vulgare</i> L.                                         | <i>Clinopodium vulgare</i> L.                                  |
| Lamiaceae       | HEDR        | <i>Hedeoma drummondii</i> Benth.                                      | <i>Hedeoma drummondii</i> Benth.                               |

# FAMILY CON'T

| Family    | USDA Symbol | USDA NRCS PLANTS                                                                      | Martin and Hutchins (1980)                                                |
|-----------|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Lamiaceae | HENA        | <i>Hedeoma nana</i> (Torr.) Briq.                                                     | <i>Hedeoma nana</i> (Torr.) Briq.                                         |
| Lamiaceae | HEOB        | <i>Hedeoma oblongifolia</i> (Gray) Heller                                             | <i>Hedeoma oblongifolia</i> (Gray) Heller                                 |
| Lamiaceae | HEPU12      | <i>Hedeoma pulcherrima</i> Woot. & Standl.                                            | <i>Hedeoma pulcherrima</i> Woot. & Standl.                                |
| Lamiaceae | LYAM        | <i>Lycopus americanus</i> Muhl. ex W. Bart.                                           | <i>Lycopus americanus</i> Muhl. ex W. Bart.                               |
| Lamiaceae | MAVU        | <i>Marrubium vulgare</i> L.                                                           | <i>Marrubium vulgare</i> L.                                               |
| Lamiaceae | MEAR4       | <i>Mentha arvensis</i> L.                                                             | <i>Mentha arvensis</i> L.                                                 |
| Lamiaceae | DRPA2       | <i>Dracocephalum parviflorum</i> Nutt.                                                | <i>Moldavica parviflora</i> (Nutt.) Britt.                                |
| Lamiaceae | MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> (Graham) Fern. | <i>Monarda menthifolia</i> Graham                                         |
| Lamiaceae | MOPE        | <i>Monarda pectinata</i> Nutt.                                                        | <i>Monarda pectinata</i> Nutt.                                            |
| Lamiaceae | NECA2       | <i>Nepeta cataria</i> L.                                                              | <i>Nepeta cataria</i> L.                                                  |
| Lamiaceae | PRVU        | <i>Prunella vulgaris</i> L.                                                           | <i>Prunella vulgaris</i> L.                                               |
| Lamiaceae | SAPR2       | <i>Salvia pratensis</i> L.                                                            | <i>Salvia pratensis</i> L.                                                |
| Lamiaceae | SARE3       | <i>Salvia reflexa</i> Hornem.                                                         | <i>Salvia reflexa</i> Hornem.                                             |
| Lamiaceae | SASU7       | <i>Salvia subincisa</i> Benth.                                                        | <i>Salvia subincisa</i> Benth.                                            |
| Lamiaceae | STPA        | <i>Stachys palustris</i> L.                                                           | <i>Stachys palustris</i> L.                                               |
| Lemnaceae | LEMI3       | <i>Lemna minor</i> L.                                                                 | <i>Lemna minor</i> L.                                                     |
| Liliaceae | ALCEO       | <i>Allium cernuum</i> var. <i>obtusum</i> Cockerell ex J.F. Macbr.                    | <i>Allium cernuum</i> var. <i>obtusum</i> Cockerell ex J.F. Macbr.        |
| Liliaceae | ALGE        | <i>Allium geyeri</i> S. Wats.                                                         | <i>Allium geyeri</i> S. Wats.                                             |
| Liliaceae | ALMA4       | <i>Allium macropetalum</i> Rydb.                                                      | <i>Allium macropetalum</i> Rydb.                                          |
| Liliaceae | ALTE        | <i>Allium textile</i> A. Nels. & J.F. Macbr.                                          | <i>Allium textile</i> A. Nels. & J.F. Macbr.                              |
| Liliaceae | ASOF        | <i>Asparagus officinalis</i> L.                                                       | <i>Asparagus officinalis</i> L.                                           |
| Liliaceae | CAGU        | <i>Calochortus gunnisonii</i> S. Wats.                                                | <i>Calochortus gunnisonii</i> S. Wats.                                    |
| Liliaceae | CANU3       | <i>Calochortus nuttallii</i> Torr. & Gray                                             | <i>Calochortus nuttallii</i> Torr. & Gray                                 |
| Liliaceae | ERHE7       | <i>Erythronium hendersonii</i> S. Wats.                                               | <i>Erythronium hendersonii</i> S. Wats.                                   |
| Liliaceae | LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i> (Nutt.) Ker-Gawl.                    | <i>Lilium umbellatum</i> Pursh                                            |
| Liliaceae | MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i> (L.) Link                          | <i>Smilacina racemosa</i> (L.) Desf.                                      |
| Liliaceae | MAST4       | <i>Maianthemum stellatum</i> (L.) Link                                                | <i>Smilacina stellata</i> (L.) Desf.                                      |
| Liliaceae | STAM2       | <i>Streptopus amplexifolius</i> (L.) DC.                                              | <i>Streptopus amplexifolius</i> (L.) DC.                                  |
| Liliaceae | VECA2       | <i>Veratrum californicum</i> Dur.                                                     | <i>Veratrum californicum</i> Dur.                                         |
| Liliaceae | ZIEL2       | <i>Zigadenus elegans</i> Pursh                                                        | <i>Zigadenus elegans</i> Pursh                                            |
| Linaceae  | LIAUA       | <i>Linum australe</i> var. <i>australe</i> Heller                                     | <i>Linum aristatum</i> var. <i>australe</i> (Heller) Keamey & Peebles     |
| Linaceae  | LILE3       | <i>Linum lewisii</i> Pursh                                                            | <i>Linum lewisii</i> Pursh                                                |
| Linaceae  | LINE        | <i>Linum neomexicanum</i> Greene                                                      | <i>Linum neomexicanum</i> Greene                                          |
| Linaceae  | LIPU4       | <i>Linum puberulum</i> (Engelm.) Heller                                               | <i>Linum puberulum</i> (Engelm.) Heller                                   |
| Linaceae  | LIRI        | <i>Linum rigidum</i> Pursh                                                            | <i>Linum rigidum</i> Pursh                                                |
| Loasaceae | MEAL6       | <i>Mentzelia albicaulis</i> (Dougl. ex Hook.) Dougl. ex Torr. & Gray                  | <i>Mentzelia albicaulis</i> (Dougl. ex Hook.) Dougl. ex Torr. & Gray      |
| Loasaceae | MELA        | <i>Mentzelia laciniata</i> (Rydb.) J. Darl.                                           | <i>Mentzelia laciniata</i> (Rydb.) J. Darl.                               |
| Loasaceae | MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i> (Osterhout) Harrington                      | <i>Mentzelia nuda</i> var. <i>stricta</i> (Osterhout) Harrington          |
| Loasaceae | MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i> Nutt. ex Torr. & Gray                      | <i>Mentzelia pumila</i> var. <i>pumila</i> Nutt. ex Torr. & Gray          |
| Loasaceae | MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i> M.E. Jones                            | <i>Mentzelia pumila</i> var. <i>integra</i> (M.E. Jones) Keamey & Peebles |

# FAMILY CON'T

| Family        | USDA Symbol | USDA NRCS PLANTS                                                                  | Martin and Hutchins (1980)                                          |
|---------------|-------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Loasaceae     | MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i> (Nutt.) Gray                   | <i>Mentzelia pumila</i> var. <i>multiflora</i> (Nutt.) Urban & Gilg |
| Loasaceae     | MERU        | <i>Mentzelia rusbyi</i> Woot.                                                     | <i>Mentzelia rusbyi</i> Woot.                                       |
| Loganiaceae   | MISE3       | <i>Mitreola sessilifolia</i> (J.F. Gmel.) G. Don                                  | <i>Cynoctonum sessilifolium</i> J.F. Gmel.                          |
| Malvaceae     | ALRO3       | <i>Alcea rosea</i> L.                                                             | <i>Althaea rosea</i> (L.) Cav.                                      |
| Malvaceae     | ANCR2       | <i>Anoda cristata</i> (L.) Schlecht.                                              | <i>Anoda cristata</i> var. <i>digitata</i> (Gray) Hochr.            |
| Malvaceae     | MANE        | <i>Malva neglecta</i> Wallr.                                                      | <i>Malva neglecta</i> Wallr.                                        |
| Malvaceae     | MAPA5       | <i>Malva parviflora</i> L.                                                        | <i>Malva parviflora</i> L.                                          |
| Malvaceae     | SICA3       | <i>Sidalcea candida</i> Gray                                                      | <i>Sidalcea candida</i> Gray                                        |
| Malvaceae     | SPAN3       | <i>Sphaeralcea angustifolia</i> (Cav.) G. Don                                     | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> Gray          |
| Malvaceae     | SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i> (E.G. Baker) Kearney                | <i>Sphaeralcea coccinea</i> var. <i>elata</i> (E.G. Baker) Kearney  |
| Malvaceae     | SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i> Gray                             | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i> Gray               |
| Malvaceae     | SPIN2       | <i>Sphaeralcea incana</i> Torr. ex Gray                                           | <i>Sphaeralcea incana</i> Torr. ex Gray                             |
| Monotropaceae | MOHY3       | <i>Monotropa hypopithys</i> L.                                                    | <i>Monotropa latisquama</i> (Rydb.) Hulten                          |
| Monotropaceae | PTAN2       | <i>Pterospora andromedea</i> Nutt.                                                | <i>Pterospora andromedea</i> Nutt.                                  |
| Nyctaginaceae | BOCO2       | <i>Boerhavia coulteri</i> (Hook. f.) S. Wats.                                     | <i>Boerhavia coulteri</i> (Hook. f.) S. Wats.                       |
| Nyctaginaceae | MICO7       | <i>Mirabilis coccinea</i> (Torr.) Benth. & Hook. f.                               | <i>Mirabilis coccinea</i> (Torr.) Benth. & Hook. f.                 |
| Nyctaginaceae | MIMU        | <i>Mirabilis multiflora</i> (Torr.) Gray                                          | <i>Mirabilis multiflora</i> (Torr.) Gray                            |
| Nyctaginaceae | MIOX        | <i>Mirabilis oxybaphoides</i> (Gray) Gray                                         | <i>Mirabilis oxybaphoides</i> (Gray) Gray                           |
| Nyctaginaceae | MIHI        | <i>Mirabilis hirsuta</i> (Pursh) MacM.                                            | <i>Oxybaphus hirsutus</i> (Pursh) Sweet                             |
| Nyctaginaceae | MILI3       | <i>Mirabilis linearis</i> (Pursh) Heimerl                                         | <i>Oxybaphus linearis</i> (Pursh) B.L. Robins.                      |
| Oleaceae      | FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i> Nutt.                           | <i>Forestiera neomexicana</i> Gray                                  |
| Oleaceae      | MESC        | <i>Menodora scabra</i> Gray                                                       | <i>Menodora scabra</i> Gray                                         |
| Onagraceae    | CAHA14      | <i>Calylophus hartwegii</i> (Benth.) Raven                                        | <i>Calylophus hartwegii</i> (Benth.) Raven                          |
| Onagraceae    | CIAL        | <i>Circaea alpina</i> L.                                                          | <i>Circaea alpina</i> L.                                            |
| Onagraceae    | EPAN2       | <i>Epilobium angustifolium</i> L.                                                 | <i>Epilobium angustifolium</i> L.                                   |
| Onagraceae    | EPCI        | <i>Epilobium ciliatum</i> Raf.                                                    | <i>Epilobium ciliatum</i> Raf.                                      |
| Onagraceae    | EPOR2       | <i>Epilobium oregonense</i> Hausskn.                                              | <i>Epilobium oregonense</i> Hausskn.                                |
| Onagraceae    | EPBR3       | <i>Epilobium brachycarpum</i> K. Presl                                            | <i>Epilobium paniculatum</i> Nutt. ex Torr. & Gray                  |
| Onagraceae    | GACO5       | <i>Gaura coccinea</i> Nutt. ex Pursh                                              | <i>Gaura coccinea</i> Nutt. ex Pursh                                |
| Onagraceae    | GAPA6       | <i>Gaura parviflora</i> Dougl. ex Lehm.                                           | <i>Gaura parviflora</i> Dougl. ex Lehm.                             |
| Onagraceae    | OEAL        | <i>Oenothera albicaulis</i> Pursh                                                 | <i>Oenothera albicaulis</i> Pursh                                   |
| Onagraceae    | OECE2       | <i>Oenothera cespitosa</i> Nutt.                                                  | <i>Oenothera cespitosa</i> Nutt.                                    |
| Onagraceae    | OECM3       | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i> (Rydb.) W.L. Wagner           | <i>Oenothera cespitosa</i> ssp. <i>eximia</i> (Gray) Munz           |
| Onagraceae    | OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i> Nutt.                            | <i>Oenothera cespitosa</i> ssp. <i>montana</i> (Nutt.) Munz         |
| Onagraceae    | OECO2       | <i>Oenothera coronopifolia</i> Torr. & Gray                                       | <i>Oenothera coronopifolia</i> Torr. & Gray                         |
| Onagraceae    | OEFL        | <i>Oenothera flava</i> (A. Nels.) Garrett                                         | <i>Oenothera flava</i> (A. Nels.) Garrett                           |
| Onagraceae    | OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i> (Torr. & Gray) W. Dietr. & W.L. Wagner | <i>Oenothera hookeri</i> Torr. & Gray                               |
| Onagraceae    | OELA        | <i>Oenothera laciniata</i> Hill                                                   | <i>Oenothera laciniata</i> Hill                                     |
| Onagraceae    | OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i> Lindl.                               | <i>Oenothera pallida</i> ssp. <i>pallida</i> Lindl.                 |

# FAMILY CON'T

| Family          | USDA Symbol | USDA NRCS PLANTS                                                                      | Martin and Hutchins (1980)                                          |
|-----------------|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Onagraceae      | OEPR        | <i>Oenothera primiveris</i> Gray                                                      | <i>Oenothera primiveris</i> Gray                                    |
| Ophioglossaceae | BOMU        | <i>Botrychium multifidum</i> (Gmel.) Trev.                                            | <i>Botrychium multifidum</i> var. <i>coulteri</i> (Underwood) Broun |
| Orchidaceae     | CABU        | <i>Calypso bulbosa</i> (L.) Oakes                                                     | <i>Calypso bulbosa</i> (L.) Oakes                                   |
| Orchidaceae     | COMA4       | <i>Corallorrhiza maculata</i> (Raf.) Raf.                                             | <i>Corallorrhiza maculata</i> (Raf.) Raf.                           |
| Orchidaceae     | COST        | <i>Corallorrhiza striata</i> Lindl.                                                   | <i>Corallorrhiza striata</i> Lindl.                                 |
| Orchidaceae     | CYPU10      | <i>Cypripedium pubescens</i> Willd.                                                   | <i>Cypripedium calceolus</i> var. <i>pubescens</i> (Willd.) Correll |
| Orchidaceae     | EPGI        | <i>Epipactis gigantea</i> Dougl. ex Hook.                                             | <i>Epipactis gigantea</i> Dougl. ex Hook.                           |
| Orchidaceae     | GOOB2       | <i>Goodyera oblongifolia</i> Raf.                                                     | <i>Goodyera oblongifolia</i> Raf.                                   |
| Orchidaceae     | GORE2       | <i>Goodyera repens</i> (L.) R. Br. ex Ait. f.                                         | <i>Goodyera repens</i> (L.) R. Br. ex Ait. f.                       |
| Orchidaceae     | PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i> (L.) Lindl.                      | <i>Habenaria hyperborea</i> (L.) R. Br. ex Ait. f.                  |
| Orchidaceae     | PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i> (S. Wats.) Schlechter          | <i>Habenaria sparsiflora</i> S. Wats.                               |
| Orchidaceae     | MAMA13      | <i>Malaxis macrostachya</i> (Lex.) Kuntze                                             | <i>Malaxis soulei</i> L.O. Williams                                 |
| Orobanchaceae   | COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i> (Gray ex S. Wats.) Haynes               | <i>Conopholis mexicana</i> Gray ex S. Wats.                         |
| Orobanchaceae   | ORFA        | <i>Orobanche fasciculata</i> Nutt.                                                    | <i>Orobanche fasciculata</i> var. <i>lutea</i> (Parry) Achey        |
| Orobanchaceae   | ORLU        | <i>Orobanche ludoviciana</i> Nutt.                                                    | <i>Orobanche ludoviciana</i> Nutt.                                  |
| Orobanchaceae   | ORLUM       | <i>Orobanche ludoviciana</i> ssp. <i>multiflora</i> (Nutt.) Collins, comb. nov. ined. | <i>Orobanche multiflora</i> Nutt.                                   |
| Oxalidaceae     | OXAL2       | <i>Oxalis alpina</i> (Rose) Rose ex R. Knuth                                          | <i>Oxalis metcalfei</i> (Small) R. Knuth                            |
| Oxalidaceae     | OXVI        | <i>Oxalis violacea</i> L.                                                             | <i>Oxalis violacea</i> L.                                           |
| Pinaceae        | ABCO        | <i>Abies concolor</i> (Gord. & Glend.) Lindl. ex Hildebr.                             | <i>Abies concolor</i> (Gord. & Glend.) Lindl. ex Hildebr.           |
| Pinaceae        | ABLAL       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i> (Hook.) Nutt.                          | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i> (Hook.) Nutt.        |
| Pinaceae        | PIEN        | <i>Picea engelmannii</i> Parry ex Engelm.                                             | <i>Picea engelmannii</i> Parry ex Engelm.                           |
| Pinaceae        | PIPU        | <i>Picea pungens</i> Engelm.                                                          | <i>Picea pungens</i> Engelm.                                        |
| Pinaceae        | PIED        | <i>Pinus edulis</i> Engelm.                                                           | <i>Pinus edulis</i> Engelm.                                         |
| Pinaceae        | PIFL2       | <i>Pinus flexilis</i> James                                                           | <i>Pinus flexilis</i> James                                         |
| Pinaceae        | PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i> Engelm.                                 | <i>Pinus ponderosa</i> var. <i>scopulorum</i> Engelm.               |
| Pinaceae        | PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i> (Beissn.) Franco                      | <i>Pseudotsuga menziesii</i> var. <i>glauca</i> (Beissn.) Franco    |
| Plantaginaceae  | PLAR2       | <i>Plantago argyraea</i> Morris                                                       | <i>Plantago argyraea</i> Morris                                     |
| Plantaginaceae  | PLMA2       | <i>Plantago major</i> L.                                                              | <i>Plantago major</i> L.                                            |
| Plantaginaceae  | PLPA2       | <i>Plantago patagonica</i> Jacq.                                                      | <i>Plantago purshii</i> Roemer & J.A. Schultes                      |
| Poaceae         | AECY        | <i>Aegilops cylindrica</i> Host                                                       | <i>Aegilops cylindrica</i> Host                                     |
| Poaceae         | ELLAL       | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i> (Scribn. & J.G. Sm.) Gould          | <i>Agropyron dasystachyum</i> (Hook.) Scribn. & J.G. Sm.            |
| Poaceae         | AGDE2       | <i>Agropyron desertorum</i> (Fisch. ex Link) J.A. Schultes                            | <i>Agropyron desertorum</i> (Fisch. ex Link) J.A. Schultes          |
| Poaceae         | ELALL       | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i> (Scribn. & J.G. Sm.) A. Love           | <i>Agropyron latiglume</i> (Scribn. & J.G. Sm.) Rydb.               |
| Poaceae         | ELPS        | <i>Elymus X pseudorepens</i> (Scribn. & J.G. Sm.) Barkworth & Dewey                   | <i>Agropyron pseudorepens</i> Scribn. & J.G. Sm.                    |
| Poaceae         | ELRER       | <i>Elytrigia repens</i> var. <i>repens</i> (L.) Desv. ex B.D. Jackson                 | <i>Agropyron repens</i> (L.) Beauv.                                 |
| Poaceae         | PASM        | <i>Pascopyrum smithii</i> (Rydb.) A. Love                                             | <i>Agropyron smithii</i> Rydb.                                      |
| Poaceae         | ELTRS       | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i> (Link) A. & D. Love                | <i>Agropyron subsecundum</i> (Link) A.S. Hitchc.                    |
| Poaceae         | ELTRT       | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i> (Link) Gould ex Shinnars          | <i>Agropyron trachycaulum</i> (Link) Malte ex H.F. Lewis            |
| Poaceae         | AGGI2       | <i>Agrostis gigantea</i> Roth                                                         | <i>Agrostis alba</i> auct. non L.                                   |

# FAMILY CON'T

| Family  | USDA Symbol | USDA NRCS PLANTS                                                    | Martin and Hutchins (1980)                                    |
|---------|-------------|---------------------------------------------------------------------|---------------------------------------------------------------|
| Poaceae | AGEX        | <i>Agrostis exarata</i> Trin.                                       | <i>Agrostis exarata</i> Trin.                                 |
| Poaceae | AGID        | <i>Agrostis idahoensis</i> Nash                                     | <i>Agrostis idahoensis</i> Nash                               |
| Poaceae | AGPE        | <i>Agrostis perennans</i> (Walt.) Tuckerman                         | <i>Agrostis perennans</i> (Walt.) Tuckerman                   |
| Poaceae | AGSC5       | <i>Agrostis scabra</i> Willd.                                       | <i>Agrostis scabra</i> Willd.                                 |
| Poaceae | POVI9       | <i>Polypogon viridis</i> (Gouan) Breistr.                           | <i>Agrostis semiverticillata</i> (Forsk.) C. Christens.       |
| Poaceae | AGST2       | <i>Agrostis stolonifera</i> L.                                      | <i>Agrostis stolonifera</i> L.                                |
| Poaceae | ALAE        | <i>Alopecurus aequalis</i> Sobol.                                   | <i>Alopecurus aequalis</i> Sobol.                             |
| Poaceae | BOBAB       | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i> (Lag.) Herter | <i>Andropogon barbinodis</i> Lag.                             |
| Poaceae | ANGE        | <i>Andropogon gerardii</i> Vitman                                   | <i>Andropogon gerardii</i> Vitman                             |
| Poaceae | ANHA        | <i>Andropogon hallii</i> Hack.                                      | <i>Andropogon hallii</i> Hack.                                |
| Poaceae | BOSA        | <i>Bothriochloa saccharoides</i> (Sw.) Rydb.                        | <i>Andropogon saccharoides</i> Sw.                            |
| Poaceae | SCSCS2      | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i> (Michx.) Nash  | <i>Andropogon scoparius</i> Michx.                            |
| Poaceae | BOSP3       | <i>Bothriochloa springfieldii</i> (Gould) Parodi                    | <i>Andropogon springfieldii</i> Gould                         |
| Poaceae | BOWR2       | <i>Bothriochloa wrightii</i> (Hack.) Henr.                          | <i>Andropogon wrightii</i> Hack.                              |
| Poaceae | ARAD        | <i>Aristida adscensionis</i> L.                                     | <i>Aristida adscensionis</i> L.                               |
| Poaceae | ARAR6       | <i>Aristida arizonica</i> Vasey                                     | <i>Aristida arizonica</i> Vasey                               |
| Poaceae | ARHA3       | <i>Aristida havardii</i> Vasey                                      | <i>Aristida barbata</i> Fourn.                                |
| Poaceae | ARDI5       | <i>Aristida divaricata</i> Humb. & Bonpl. ex Willd.                 | <i>Aristida divaricata</i> Humb. & Bonpl. ex Willd.           |
| Poaceae | ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i> (Steud.) Vasey     | <i>Aristida fendleriana</i> Steud.                            |
| Poaceae | ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i> (Steud.) Vasey       | <i>Aristida longiseta</i> Steud.                              |
| Poaceae | ARPU9       | <i>Aristida purpurea</i> Nutt.                                      | <i>Aristida purpurea</i> Nutt.                                |
| Poaceae | BESY        | <i>Beckmannia syzigachne</i> (Steud.) Fern.                         | <i>Beckmannia syzigachne</i> (Steud.) Fern.                   |
| Poaceae | BLTR        | <i>Blepharoneuron tricholepis</i> (Torr.) Nash                      | <i>Blepharoneuron tricholepis</i> (Torr.) Nash                |
| Poaceae | BOAR        | <i>Bouteloua aristidoides</i> (Kunth) Griseb.                       | <i>Bouteloua aristidoides</i> (Kunth) Griseb.                 |
| Poaceae | BOBA2       | <i>Bouteloua barbata</i> Lag.                                       | <i>Bouteloua barbata</i> Lag.                                 |
| Poaceae | BOCU        | <i>Bouteloua curtipendula</i> (Michx.) Torr.                        | <i>Bouteloua curtipendula</i> (Michx.) Torr.                  |
| Poaceae | BOER4       | <i>Bouteloua eriopoda</i> (Torr.) Torr.                             | <i>Bouteloua eriopoda</i> (Torr.) Torr.                       |
| Poaceae | BOGR2       | <i>Bouteloua gracilis</i> (Willd. ex Kunth) Lag. ex Griffiths       | <i>Bouteloua gracilis</i> (Willd. ex Kunth) Lag. ex Griffiths |
| Poaceae | BOHI2       | <i>Bouteloua hirsuta</i> Lag.                                       | <i>Bouteloua hirsuta</i> Lag.                                 |
| Poaceae | BOSI2       | <i>Bouteloua simplex</i> Lag.                                       | <i>Bouteloua simplex</i> Lag.                                 |
| Poaceae | BRAN        | <i>Bromus anomalus</i> Rupr. ex Fourn.                              | <i>Bromus anomalus</i> Rupr. ex Fourn.                        |
| Poaceae | BRCA6       | <i>Bromus catharticus</i> Vahl                                      | <i>Bromus catharticus</i> Vahl                                |
| Poaceae | BRCI2       | <i>Bromus ciliatus</i> L.                                           | <i>Bromus ciliatus</i> L.                                     |
| Poaceae | BRFR2       | <i>Bromus frondosus</i> (Shear) Woot. & Standl.                     | <i>Bromus frondosus</i> (Shear) Woot. & Standl.               |
| Poaceae | BRIN2       | <i>Bromus inermis</i> Leyss.                                        | <i>Bromus inermis</i> Leyss.                                  |
| Poaceae | BRJA        | <i>Bromus japonicus</i> Thunb. ex Murr.                             | <i>Bromus japonicus</i> Thunb. ex Murr.                       |
| Poaceae | BRLA6       | <i>Bromus lanatipes</i> (Shear) Rydb.                               | <i>Bromus lanatipes</i> (Shear) Rydb.                         |
| Poaceae | BRMA4       | <i>Bromus marginatus</i> Nees ex Steud.                             | <i>Bromus marginatus</i> Nees ex Steud.                       |
| Poaceae | BRKA2       | <i>Bromus kalmii</i> Gray                                           | <i>Bromus purgans</i> L.                                      |
| Poaceae | BRTE        | <i>Bromus tectorum</i> L.                                           | <i>Bromus tectorum</i> L.                                     |

# FAMILY CON'T

| Family  | USDA Symbol | USDA NRCS PLANTS                                                      | Martin and Hutchins (1980)                                     |
|---------|-------------|-----------------------------------------------------------------------|----------------------------------------------------------------|
| Poaceae | BUDA        | <i>Buchloe dactyloides</i> (Nutt.) Engelm.                            | <i>Buchloe dactyloides</i> (Nutt.) Engelm.                     |
| Poaceae | CEEC        | <i>Cenchrus echinatus</i> L.                                          | <i>Cenchrus echinatus</i> L.                                   |
| Poaceae | CEIN4       | <i>Cenchrus incertus</i> M.A. Curtis                                  | <i>Cenchrus pauciflorus</i> Benth.                             |
| Poaceae | CHVI4       | <i>Chloris virgata</i> Sw.                                            | <i>Chloris virgata</i> Sw.                                     |
| Poaceae | CYDA        | <i>Cynodon dactylon</i> (L.) Pers.                                    | <i>Cynodon dactylon</i> (L.) Pers.                             |
| Poaceae | CYEC        | <i>Cynosurus echinatus</i> L.                                         | <i>Cynosurus echinatus</i> L.                                  |
| Poaceae | DAGL        | <i>Dactylis glomerata</i> L.                                          | <i>Dactylis glomerata</i> L.                                   |
| Poaceae | DAIN        | <i>Danthonia intermedia</i> Vasey                                     | <i>Danthonia intermedia</i> Vasey                              |
| Poaceae | DAPA2       | <i>Danthonia parryi</i> Scribn.                                       | <i>Danthonia parryi</i> Scribn.                                |
| Poaceae | DASP2       | <i>Danthonia spicata</i> (L.) Beauv. ex Roemer & J.A. Schultes        | <i>Danthonia spicata</i> (L.) Beauv. ex Roemer & J.A. Schultes |
| Poaceae | DECE        | <i>Deschampsia cespitosa</i> (L.) Beauv.                              | <i>Deschampsia caespitosa</i> (L.) P. Beauv.                   |
| Poaceae | DISP        | <i>Distichlis spicata</i> (L.) Greene                                 | <i>Distichlis spicata</i> (L.) Greene                          |
| Poaceae | DISP        | <i>Distichlis spicata</i> (L.) Greene                                 | <i>Distichlis stricta</i> (Torr.) Rydb.                        |
| Poaceae | ECCR        | <i>Echinochloa crus-galli</i> (L.) Beauv.                             | <i>Echinochloa crus-galli</i> (L.) Beauv.                      |
| Poaceae | ELCA4       | <i>Elymus canadensis</i> L.                                           | <i>Elymus canadensis</i> L.                                    |
| Poaceae | ELGL        | <i>Elymus glaucus</i> Buckl.                                          | <i>Elymus glaucus</i> Buckl.                                   |
| Poaceae | ELVI3       | <i>Elymus virginicus</i> L.                                           | <i>Elymus virginicus</i> L.                                    |
| Poaceae | ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i> (Fourn.) J. Reeder | <i>Eragrostis arida</i> A.S. Hitchc.                           |
| Poaceae | ERBA2       | <i>Eragrostis barrelieri</i> Daveau                                   | <i>Eragrostis barrelieri</i> Daveau                            |
| Poaceae | ERCI        | <i>Eragrostis cilianensis</i> (All.) Lut. ex Janchen                  | <i>Eragrostis cilianensis</i> (All.) Lut. ex Janchen           |
| Poaceae | ERCU2       | <i>Eragrostis curvula</i> (Schrud.) Nees                              | <i>Eragrostis curvula</i> (Schrud.) Nees                       |
| Poaceae | ERHY        | <i>Eragrostis hypnoides</i> (Lam.) B.S.P.                             | <i>Eragrostis hypnoides</i> (Lam.) B.S.P.                      |
| Poaceae | ERPE        | <i>Eragrostis pectinacea</i> (Michx.) Nees ex Steud.                  | <i>Eragrostis pectinacea</i> (Michx.) Nees ex Steud.           |
| Poaceae | ERTR3       | <i>Eragrostis trichodes</i> (Nutt.) Wood                              | <i>Eragrostis trichodes</i> (Nutt.) Wood                       |
| Poaceae | ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i> (J. Presl) Kunth     | <i>Eriochloa gracilis</i> (Fourn.) A.S. Hitchc.                |
| Poaceae | FEAR2       | <i>Festuca arizonica</i> Vasey                                        | <i>Festuca arizonica</i> Vasey                                 |
| Poaceae | LOPR7       | <i>Lolium pratense</i> (Huds.) S.J. Darbyshire                        | <i>Festuca elatior</i> L. p.p.                                 |
| Poaceae | VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i> (Walt.) Rydb.           | <i>Festuca octoflora</i> Walt.                                 |
| Poaceae | FEOV        | <i>Festuca ovina</i> L.                                               | <i>Festuca ovina</i> L.                                        |
| Poaceae | FESO        | <i>Festuca sororia</i> Piper                                          | <i>Festuca sororia</i> Piper                                   |
| Poaceae | FETH        | <i>Festuca thurberi</i> Vasey                                         | <i>Festuca thurberi</i> Vasey                                  |
| Poaceae | GLBO        | <i>Glyceria borealis</i> (Nash) Batchelder                            | <i>Glyceria borealis</i> (Nash) Batchelder                     |
| Poaceae | GLGR        | <i>Glyceria grandis</i> S. Wats.                                      | <i>Glyceria grandis</i> S. Wats.                               |
| Poaceae | GLST        | <i>Glyceria striata</i> (Lam.) A.S. Hitchc.                           | <i>Glyceria striata</i> (Lam.) A.S. Hitchc.                    |
| Poaceae | HIOD        | <i>Hierochloa odorata</i> (L.) Beauv.                                 | <i>Hierochloa odorata</i> (L.) Beauv.                          |
| Poaceae | PLJA        | <i>Pleuraphis jamesii</i> Torr.                                       | <i>Hilaria jamesii</i> (Torr.) Benth.                          |
| Poaceae | HOBR2       | <i>Hordeum brachyantherum</i> Nevski                                  | <i>Hordeum brachyantherum</i> Nevski                           |
| Poaceae | HOJU        | <i>Hordeum jubatum</i> L.                                             | <i>Hordeum jubatum</i> L.                                      |
| Poaceae | KOMA        | <i>Koeleria macrantha</i> (Ledeb.) J.A. Schultes                      | <i>Koeleria cristata</i> auct. p.p. non Pers.                  |
| Poaceae | LEOR        | <i>Leersia oryzoides</i> (L.) Sw.                                     | <i>Leersia oryzoides</i> (L.) Sw.                              |



# FAMILY CON'T

| Family  | USDA Symbol | USDA NRCS PLANTS                                                           | Martin and Hutchins (1980)                                           |
|---------|-------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|
| Poaceae | LOPE        | <i>Lolium perenne</i> L.                                                   | <i>Lolium perenne</i> L.                                             |
| Poaceae | LYPH        | <i>Lycurus phleoides</i> Kunth                                             | <i>Lycurus phleoides</i> Kunth                                       |
| Poaceae | MEPO        | <i>Melica porteri</i> Scribn.                                              | <i>Melica porteri</i> Scribn.                                        |
| Poaceae | MUAR4       | <i>Muhlenbergia arsenei</i> A.S. Hitchc.                                   | <i>Muhlenbergia arsenei</i> A.S. Hitchc.                             |
| Poaceae | MUAS        | <i>Muhlenbergia asperifolia</i> (Nees & Meyen ex Trin.) Parodi             | <i>Muhlenbergia asperifolia</i> (Nees & Meyen ex Trin.) Parodi       |
| Poaceae | MUCU        | <i>Muhlenbergia curtifolia</i> Scribn.                                     | <i>Muhlenbergia curtifolia</i> Scribn.                               |
| Poaceae | MUME2       | <i>Muhlenbergia mexicana</i> (L.) Trin.                                    | <i>Muhlenbergia mexicana</i> (L.) Trin.                              |
| Poaceae | MUMO        | <i>Muhlenbergia montana</i> (Nutt.) A.S. Hitchc.                           | <i>Muhlenbergia montana</i> (Nutt.) A.S. Hitchc.                     |
| Poaceae | MUPA2       | <i>Muhlenbergia pauciflora</i> Buckl.                                      | <i>Muhlenbergia pauciflora</i> Buckl.                                |
| Poaceae | MUPO2       | <i>Muhlenbergia porteri</i> Scribn. ex Beal                                | <i>Muhlenbergia porteri</i> Scribn. ex Beal                          |
| Poaceae | MUPE3       | <i>Muhlenbergia peruviana</i> (Beauv.) Steud.                              | <i>Muhlenbergia pulcherrima</i> Scribn. ex Beal                      |
| Poaceae | MURA        | <i>Muhlenbergia racemosa</i> (Michx.) B.S.P.                               | <i>Muhlenbergia racemosa</i> (Michx.) B.S.P.                         |
| Poaceae | MURI2       | <i>Muhlenbergia rigens</i> (Benth.) A.S. Hitchc.                           | <i>Muhlenbergia rigens</i> (Benth.) A.S. Hitchc.                     |
| Poaceae | MUTO2       | <i>Muhlenbergia torreyi</i> (Kunth) A.S. Hitchc. ex Bush                   | <i>Muhlenbergia torreyi</i> (Kunth) A.S. Hitchc. ex Bush             |
| Poaceae | MURA4       | <i>Muhlenbergia ramulosa</i> (Kunth) Swallen                               | <i>Muhlenbergia wolfii</i> (Vasey) Rydb.                             |
| Poaceae | MUWR        | <i>Muhlenbergia wrightii</i> Vasey ex Coult.                               | <i>Muhlenbergia wrightii</i> Vasey ex Coult.                         |
| Poaceae | MOSQ        | <i>Monroa squarrosa</i> (Nutt.) Torr.                                      | <i>Monroa squarrosa</i> (Nutt.) Torr.                                |
| Poaceae | ORAS        | <i>Oryzopsis asperifolia</i> Michx.                                        | <i>Oryzopsis asperifolia</i> Michx.                                  |
| Poaceae | ACHY        | <i>Achnatherum hymenoides</i> (Roemer & J.A. Schultes) Barkworth           | <i>Oryzopsis hymenoides</i> (Roemer & J.A. Schultes) Ricker ex Piper |
| Poaceae | PIMI7       | <i>Piptatherum micranthum</i> (Trin. & Rupr.) Barkworth                    | <i>Oryzopsis micrantha</i> (Trin. & Rupr.) Thurb.                    |
| Poaceae | PABU        | <i>Panicum bulbosum</i> Kunth                                              | <i>Panicum bulbosum</i> Kunth                                        |
| Poaceae | PACA6       | <i>Panicum capillare</i> L.                                                | <i>Panicum capillare</i> L.                                          |
| Poaceae | PAHA        | <i>Panicum hallii</i> Vasey                                                | <i>Panicum hallii</i> Vasey                                          |
| Poaceae | DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> (Nash) Gould   | <i>Panicum helleri</i> Nash                                          |
| Poaceae | PAMI2       | <i>Panicum miliaceum</i> L.                                                | <i>Panicum miliaceum</i> L.                                          |
| Poaceae | PAOB        | <i>Panicum obtusum</i> Kunth                                               | <i>Panicum obtusum</i> Kunth                                         |
| Poaceae | DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> (Nash) Gould   | <i>Panicum scribnerianum</i> Nash                                    |
| Poaceae | DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i> (Torr.) Freckmann | <i>Panicum tennesseense</i> Ashe                                     |
| Poaceae | PAVI2       | <i>Panicum virgatum</i> L.                                                 | <i>Panicum virgatum</i> L.                                           |
| Poaceae | PHAL2       | <i>Phleum alpinum</i> L.                                                   | <i>Phleum alpinum</i> L.                                             |
| Poaceae | PHPR3       | <i>Phleum pratense</i> L.                                                  | <i>Phleum pratense</i> L.                                            |
| Poaceae | PHAU7       | <i>Phragmites australis</i> (Cav.) Trin. ex Steud.                         | <i>Phragmites communis</i> Trin.                                     |
| Poaceae | POAN        | <i>Poa annua</i> L.                                                        | <i>Poa annua</i> L.                                                  |
| Poaceae | POBI        | <i>Poa bigelovii</i> Vasey & Scribn.                                       | <i>Poa bigelovii</i> Vasey & Scribn.                                 |
| Poaceae | POCO        | <i>Poa compressa</i> L.                                                    | <i>Poa compressa</i> L.                                              |
| Poaceae | POFE        | <i>Poa fendleriana</i> (Steud.) Vasey                                      | <i>Poa fendleriana</i> (Steud.) Vasey                                |
| Poaceae | POIN        | <i>Poa interior</i> Rydb.                                                  | <i>Poa interior</i> Rydb.                                            |
| Poaceae | POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i> (Steud.) Vasey              | <i>Poa longiligula</i> Scribn. & Williams                            |
| Poaceae | POSE        | <i>Poa secunda</i> J. Presl                                                | <i>Poa nevadensis</i> Vasey ex Scribn.                               |
| Poaceae | POPA2       | <i>Poa palustris</i> L.                                                    | <i>Poa palustris</i> L.                                              |

## FAMILY CON'T

| Family        | USDA Symbol | USDA NRCS PLANTS                                                              | Martin and Hutchins (1980)                                                    |
|---------------|-------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Poaceae       | POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i> (Vasey) A. & D. Love & Kapoor   | <i>Poa pattersonii</i> Vasey                                                  |
| Poaceae       | POPR        | <i>Poa pratensis</i> L.                                                       | <i>Poa pratensis</i> L.                                                       |
| Poaceae       | POMO5       | <i>Polypogon monspeliensis</i> (L.) Desf.                                     | <i>Polypogon monspeliensis</i> (L.) Desf.                                     |
| Poaceae       | SCPA        | <i>Schedonnardus paniculatus</i> (Nutt.) Trel.                                | <i>Schedonnardus paniculatus</i> (Nutt.) Trel.                                |
| Poaceae       | SCPU        | <i>Schizachne purpurascens</i> (Torr.) Swallen                                | <i>Schizachne purpurascens</i> (Torr.) Swallen                                |
| Poaceae       | SCBR2       | <i>Scleropogon brevifolius</i> Phil.                                          | <i>Scleropogon brevifolius</i> Phil.                                          |
| Poaceae       | SEPA10      | <i>Setaria parviflora</i> (Poir.) Kerguelen                                   | <i>Setaria geniculata</i> Beauv.                                              |
| Poaceae       | PEAM4       | <i>Pennisetum americanum</i> (L.) Leeke                                       | <i>Setaria lutescens</i> (Weigel) F.T. Hubbard                                |
| Poaceae       | SEVU2       | <i>Setaria vulpiseta</i> (Lam.) Roemer & J.A. Schultes                        | <i>Setaria macrostachya</i> Kunth                                             |
| Poaceae       | SEVI4       | <i>Setaria viridis</i> (L.) Beauv.                                            | <i>Setaria viridis</i> (L.) Beauv.                                            |
| Poaceae       | ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i> (Raf.) Swezey                   | <i>Sitanion hystrix</i> (Nutt.) J.G. Sm.                                      |
| Poaceae       | SONU2       | <i>Sorghastrum nutans</i> (L.) Nash                                           | <i>Sorghastrum nutans</i> (L.) Nash                                           |
| Poaceae       | SPIN3       | <i>Sphenopholis intermedia</i> (Rydb.) Rydb.                                  | <i>Sphenopholis intermedia</i> (Rydb.) Rydb.                                  |
| Poaceae       | SPAI        | <i>Sporobolus airoides</i> (Torr.) Torr.                                      | <i>Sporobolus airoides</i> (Torr.) Torr.                                      |
| Poaceae       | SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i> (Poir.) Merr.             | <i>Sporobolus asper</i> (Beauv.) Kunth                                        |
| Poaceae       | SPCO4       | <i>Sporobolus contractus</i> A.S. Hitchc.                                     | <i>Sporobolus contractus</i> A.S. Hitchc.                                     |
| Poaceae       | SPCR        | <i>Sporobolus cryptandrus</i> (Torr.) Gray                                    | <i>Sporobolus cryptandrus</i> (Torr.) Gray                                    |
| Poaceae       | SPNE        | <i>Sporobolus nealleyi</i> Vasey                                              | <i>Sporobolus nealleyi</i> Vasey                                              |
| Poaceae       | SPTE5       | <i>Sporobolus texanus</i> Vasey                                               | <i>Sporobolus texanus</i> Vasey                                               |
| Poaceae       | ACNED       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i> (Barkworth & Maze) Barkworth    | <i>Stipa columbiana</i> auct. non Macoun                                      |
| Poaceae       | HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i> (Trin. & Rupr.) Barkworth       | <i>Stipa comata</i> Trin. & Rupr.                                             |
| Poaceae       | ACEM4       | <i>Achnatherum eminens</i> (Cav.) Barkworth                                   | <i>Stipa eminens</i> Cav.                                                     |
| Poaceae       | ACLE9       | <i>Achnatherum lettermanii</i> (Vasey) Barkworth                              | <i>Stipa lettermanii</i> Vasey                                                |
| Poaceae       | HENE5       | <i>Hesperostipa neomexicana</i> (Thurb. ex Coult.) Barkworth                  | <i>Stipa neomexicana</i> (Thurb. ex Coult.) Scribn.                           |
| Poaceae       | ACRO7       | <i>Achnatherum robustum</i> (Vasey) Barkworth                                 | <i>Stipa robusta</i> (Vasey) Scribn.                                          |
| Poaceae       | TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i> (J. Presl) J.I. Davis      | <i>Torreyochloa pauciflora</i> (J. Presl) Church                              |
| Poaceae       | ERPU8       | <i>Erioneuron pulchellum</i> (Kunth) Tateoka                                  | <i>Tridens pulchellus</i> (Kunth) A.S. Hitchc.                                |
| Poaceae       | TRMO5       | <i>Trisetum montanum</i> Vasey                                                | <i>Trisetum montanum</i> Vasey                                                |
| Poaceae       | TRSP2       | <i>Trisetum spicatum</i> (L.) Richter                                         | <i>Trisetum spicatum</i> (L.) Richter                                         |
| Polemoniaceae | COLI2       | <i>Collomia linearis</i> Nutt.                                                | <i>Collomia linearis</i> Nutt.                                                |
| Polemoniaceae | GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i> (A. & V. Grant) Day & V. Grant | <i>Gilia flavocincta</i> ssp. <i>australis</i> (A. & V. Grant) Day & V. Grant |
| Polemoniaceae | GILE3       | <i>Gilia leptomeria</i> Gray                                                  | <i>Gilia leptomeria</i> Gray                                                  |
| Polemoniaceae | GIPI        | <i>Gilia pinnatifida</i> Nutt. ex Gray                                        | <i>Gilia pinnatifida</i> Nutt. ex Gray                                        |
| Polemoniaceae | IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i> (Pursh) V. Grant             | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i> (Pursh) V. Grant             |
| Polemoniaceae | LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i> Patterson                   | <i>Ipomopsis aggregata</i> var. <i>tenuilobus</i> (Rydb.) Dom                 |
| Polemoniaceae | IPLA2       | <i>Ipomopsis laxiflora</i> (Coult.) V. Grant                                  | <i>Ipomopsis laxiflora</i> (Coult.) V. Grant                                  |
| Polemoniaceae | IPLO2       | <i>Ipomopsis longiflora</i> (Torr.) V. Grant                                  | <i>Ipomopsis longiflora</i> (Torr.) V. Grant                                  |
| Polemoniaceae | IPMU3       | <i>Ipomopsis multiflora</i> (Nutt.) V. Grant                                  | <i>Ipomopsis multiflora</i> (Nutt.) V. Grant                                  |
| Polemoniaceae | IPPU4       | <i>Ipomopsis pumila</i> (Nutt.) V. Grant                                      | <i>Ipomopsis pumila</i> (Nutt.) V. Grant                                      |
| Polemoniaceae | PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i> (Hook.) Greene                     | <i>Microsteris gracilis</i> (Hook.) Greene                                    |

# FAMILY CON'T

| Family        | USDA Symbol | USDA NRCS PLANTS                                                            | Martin and Hutchins (1980)                                            |
|---------------|-------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Polemoniaceae | PHLO2       | <i>Phlox longifolia</i> Nutt.                                               | <i>Phlox longifolia</i> Nutt.                                         |
| Polemoniaceae | POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> Gray              | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> Gray        |
| Polygonaceae  | ERAB2       | <i>Eriogonum abertianum</i> Torr.                                           | <i>Eriogonum abertianum</i> Torr.                                     |
| Polygonaceae  | ERAL4       | <i>Eriogonum alatum</i> Torr.                                               | <i>Eriogonum alatum</i> Torr.                                         |
| Polygonaceae  | ERAN4       | <i>Eriogonum annuum</i> Nutt.                                               | <i>Eriogonum annuum</i> Nutt.                                         |
| Polygonaceae  | ERCE2       | <i>Eriogonum cernuum</i> Nutt.                                              | <i>Eriogonum cernuum</i> Nutt.                                        |
| Polygonaceae  | EREF        | <i>Eriogonum effusum</i> Nutt.                                              | <i>Eriogonum effusum</i> Nutt.                                        |
| Polygonaceae  | ERJA        | <i>Eriogonum jamesii</i> Benth.                                             | <i>Eriogonum jamesii</i> Benth.                                       |
| Polygonaceae  | ERLE9       | <i>Eriogonum leptocladon</i> Torr. & Gray                                   | <i>Eriogonum leptocladon</i> Torr. & Gray                             |
| Polygonaceae  | ERPO4       | <i>Eriogonum polycladon</i> Benth.                                          | <i>Eriogonum polycladon</i> Benth.                                    |
| Polygonaceae  | ERRA3       | <i>Eriogonum racemosum</i> Nutt.                                            | <i>Eriogonum racemosum</i> Nutt.                                      |
| Polygonaceae  | POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i> Coleman                  | <i>Polygonum amphibium</i> var. <i>stipulaceum</i> Coleman            |
| Polygonaceae  | POAV        | <i>Polygonum aviculare</i> L.                                               | <i>Polygonum aviculare</i> L.                                         |
| Polygonaceae  | POBI6       | <i>Polygonum bistortoides</i> Pursh                                         | <i>Polygonum bistortoides</i> Pursh                                   |
| Polygonaceae  | POCO10      | <i>Polygonum convolvulus</i> L.                                             | <i>Polygonum convolvulus</i> L.                                       |
| Polygonaceae  | PODO4       | <i>Polygonum douglasii</i> Greene                                           | <i>Polygonum douglasii</i> Greene                                     |
| Polygonaceae  | PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i> Greene                     | <i>Polygonum montanum</i> Small                                       |
| Polygonaceae  | POPE3       | <i>Polygonum persicaria</i> L.                                              | <i>Polygonum persicaria</i> L.                                        |
| Polygonaceae  | PORA3       | <i>Polygonum ramosissimum</i> Michx.                                        | <i>Polygonum ramosissimum</i> Michx.                                  |
| Polygonaceae  | PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i> (Munz) Hickman            | <i>Polygonum sawatchense</i> Small                                    |
| Polygonaceae  | RUAC3       | <i>Rumex acetosella</i> L.                                                  | <i>Rumex acetosella</i> L.                                            |
| Polygonaceae  | RUCR        | <i>Rumex crispus</i> L.                                                     | <i>Rumex crispus</i> L.                                               |
| Polygonaceae  | RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i> (Meisn.) C.L. Hitchc.       | <i>Rumex mexicanus</i> Meisn.                                         |
| Polygonaceae  | RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i> (Greene) Dom                 | <i>Rumex occidentalis</i> S. Wats.                                    |
| Polygonaceae  | RUPA5       | <i>Rumex patientia</i> L.                                                   | <i>Rumex patientia</i> L.                                             |
| Polygonaceae  | RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i> (Meisn.) C.L. Hitchc.       | <i>Rumex triangulivalvis</i> (Danser) Rech. f.                        |
| Portulacaceae | POOL        | <i>Portulaca oleracea</i> L.                                                | <i>Portulaca oleracea</i> L.                                          |
| Portulacaceae | TAPA3       | <i>Talinum parviflorum</i> Nutt.                                            | <i>Talinum parviflorum</i> Nutt.                                      |
| Primulaceae   | ANAR        | <i>Anagallis arvensis</i> L.                                                | <i>Anagallis arvensis</i> L.                                          |
| Primulaceae   | ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i> (Gray) G.T. Robbins | <i>Androsace septentrionalis</i> var. <i>subulifera</i> Gray          |
| Primulaceae   | DOAL        | <i>Dodecatheon alpinum</i> (Gray) Greene                                    | <i>Dodecatheon alpinum</i> (Gray) Greene                              |
| Primulaceae   | DOPU        | <i>Dodecatheon pulchellum</i> (Raf.) Merr.                                  | <i>Dodecatheon pulchellum</i> (Raf.) Merr.                            |
| Primulaceae   | PRRU        | <i>Primula rusbyi</i> Greene                                                | <i>Primula rusbyi</i> Greene                                          |
| Pteridaceae   | CHFE        | <i>Cheilanthes feei</i> T. Moore                                            | <i>Cheilanthes feei</i> T. Moore                                      |
| Pteridaceae   | CHFE2       | <i>Cheilanthes fendleri</i> Hook.                                           | <i>Cheilanthes fendleri</i> Hook.                                     |
| Pteridaceae   | CHTO2       | <i>Cheilanthes tomentosa</i> Link                                           | <i>Cheilanthes tomentosa</i> Link                                     |
| Pteridaceae   | CHEA        | <i>Cheilanthes eatonii</i> Baker                                            | <i>Cheilanthes eatonii</i> Baker                                      |
| Pteridaceae   | CRAC3       | <i>Cryptogramma acrostichoides</i> R. Br.                                   | <i>Cryptogramma crispa</i> ssp. <i>acrostichoides</i> (R. Br.) Hulten |
| Pteridaceae   | NOTHO       | <i>Notholaena</i> R. Br.                                                    | <i>Notholaena</i> R. Br.                                              |
| Pteridaceae   | NOST        | <i>Notholaena standleyi</i> Maxon                                           | <i>Notholaena standleyi</i> Maxon                                     |

# FAMILY CON'T

| Family        | USDA Symbol | USDA NRCS PLANTS                                                                | Martin and Hutchins (1980)                                          |
|---------------|-------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Pteridaceae   | PEAT2       | <i>Pellaea atropurpurea</i> (L.) Link                                           | <i>Pellaea atropurpurea</i> (L.) Link                               |
| Pteridaceae   | ARFE5       | <i>Argyrochosma fendleri</i> (Kunze) Windham                                    | <i>Pellaea fendleri</i> (Kunze) Prantl                              |
| Pteridaceae   | ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i> (Maxon) Windham             | <i>Pellaea limitanea</i> (Maxon) Morton                             |
| Pteridaceae   | PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i> (D.C. Eat.) D.C. Eat.            | <i>Pellaea longimucronata</i> Hook.                                 |
| Pyrolaceae    | CHUM        | <i>Chimaphila umbellata</i> (L.) W. Bart.                                       | <i>Chimaphila umbellata</i> (L.) W. Bart.                           |
| Pyrolaceae    | PYAS        | <i>Pyrola asarifolia</i> Michx.                                                 | <i>Pyrola asarifolia</i> Michx.                                     |
| Pyrolaceae    | PYCH        | <i>Pyrola chlorantha</i> Sw.                                                    | <i>Pyrola chlorantha</i> Sw.                                        |
| Pyrolaceae    | PYEL        | <i>Pyrola elliptica</i> Nutt.                                                   | <i>Pyrola elliptica</i> Nutt.                                       |
| Pyrolaceae    | PYMI        | <i>Pyrola minor</i> L.                                                          | <i>Pyrola minor</i> L.                                              |
| Pyrolaceae    | PYPI2       | <i>Pyrola picta</i> Sm.                                                         | <i>Pyrola picta</i> Sm.                                             |
| Pyrolaceae    | ORSE        | <i>Orthilia secunda</i> (L.) House                                              | <i>Ramischia secunda</i> (L.) Garcke                                |
| Ranunculaceae | ACCO4       | <i>Aconitum columbianum</i> Nutt.                                               | <i>Aconitum columbianum</i> Nutt.                                   |
| Ranunculaceae | ACRUA8      | <i>Actaea rubra</i> ssp. <i>arguta</i> (Nutt.) Hulten                           | <i>Actaea arguta</i> var. <i>viridiflora</i> (Greene) Tidestrom     |
| Ranunculaceae | ANCY        | <i>Anemone cylindrica</i> Gray                                                  | <i>Anemone cylindrica</i> Gray                                      |
| Ranunculaceae | AQCO        | <i>Aquilegia coerulea</i> James                                                 | <i>Aquilegia coerulea</i> James                                     |
| Ranunculaceae | AQCH        | <i>Aquilegia chrysantha</i> Gray                                                | <i>Aquilegia chrysantha</i> Gray                                    |
| Ranunculaceae | AQEL        | <i>Aquilegia elegantula</i> Greene                                              | <i>Aquilegia elegantula</i> Greene                                  |
| Ranunculaceae | AQTR        | <i>Aquilegia tritemata</i> Payson                                               | <i>Aquilegia tritemata</i> Payson                                   |
| Ranunculaceae | CLDR        | <i>Clematis drummondii</i> Torr. & Gray                                         | <i>Clematis drummondii</i> Torr. & Gray                             |
| Ranunculaceae | CLLI2       | <i>Clematis ligusticifolia</i> Nutt.                                            | <i>Clematis ligusticifolia</i> Nutt.                                |
| Ranunculaceae | CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i> (Nutt.) Torr. & Gray          | <i>Clematis pseudoalpina</i> (Kuntze) A. Nels.                      |
| Ranunculaceae | DEOC        | <i>Delphinium X occidentale</i> (S. Wats.) S. Wats.                             | <i>Delphinium X occidentale</i> (S. Wats.) S. Wats.                 |
| Ranunculaceae | DEWO        | <i>Delphinium wootonii</i> Rydb.                                                | <i>Delphinium virescens</i> ssp. <i>wootonii</i> (Rydb.) Ewan       |
| Ranunculaceae | PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i> (Pritz.) Zamels                  | <i>Pulsatilla ludoviciana</i> Heller                                |
| Ranunculaceae | RAAB        | <i>Ranunculus abortivus</i> L.                                                  | <i>Ranunculus abortivus</i> L.                                      |
| Ranunculaceae | RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> Chaix                 | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i> (Thuill.) DC.   |
| Ranunculaceae | RACA4       | <i>Ranunculus cardiophyllus</i> Hook.                                           | <i>Ranunculus cardiophyllus</i> Hook.                               |
| Ranunculaceae | RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> Fern.                     | <i>Ranunculus cymbalaria</i> ssp. <i>saximontanus</i> (Fern.) Thome |
| Ranunculaceae | RAIN        | <i>Ranunculus inamoenus</i> Greene                                              | <i>Ranunculus inamoenus</i> Greene                                  |
| Ranunculaceae | RAMA2       | <i>Ranunculus macounii</i> Britt.                                               | <i>Ranunculus macounii</i> Britt.                                   |
| Ranunculaceae | RAMA3       | <i>Ranunculus macranthus</i> Scheele                                            | <i>Ranunculus macranthus</i> Scheele                                |
| Ranunculaceae | RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i> Nutt.                       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i> Nutt.           |
| Ranunculaceae | THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i> Engelm. ex Gray                 | <i>Thalictrum fendleri</i> var. <i>fendleri</i> Engelm. ex Gray     |
| Ranunculaceae | TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> (Gray) C.L. Hitchc. | <i>Trautvetteria grandis</i> Nutt.                                  |
| Rhamnaceae    | CEFE        | <i>Ceanothus fendleri</i> Gray                                                  | <i>Ceanothus fendleri</i> Gray                                      |
| Rosaceae      | AGGR2       | <i>Agrimonia gryposepala</i> Wallr.                                             | <i>Agrimonia gryposepala</i> Wallr.                                 |
| Rosaceae      | AGST        | <i>Agrimonia striata</i> Michx.                                                 | <i>Agrimonia striata</i> Michx.                                     |
| Rosaceae      | AMUTU       | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i> Koehne                       | <i>Amelanchier bakeri</i> Greene                                    |
| Rosaceae      | AMUTU       | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i> Koehne                       | <i>Amelanchier oreophila</i> A. Nels.                               |
| Rosaceae      | AMPU5       | <i>Amelanchier pumila</i> (Torr. & Gray) Nutt. ex M. Roemer                     | <i>Amelanchier polycarpa</i> Greene                                 |

# FAMILY CON'T

| Family    | USDA Symbol | USDA NRCS PLANTS                                                             | Martin and Hutchins (1980)                                                                |
|-----------|-------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Rosaceae  | AMUT        | <i>Amelanchier utahensis</i> Koehne                                          | <i>Amelanchier utahensis</i> Koehne                                                       |
| Rosaceae  | CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i> Raf.                        | <i>Cercocarpus montanus</i> var. <i>montanus</i> Raf.                                     |
| Rosaceae  | CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> (S. Wats.) F.L. Martin | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> (S. Wats.) F.L. Martin              |
| Rosaceae  | CRER        | <i>Crataegus erythropoda</i> Ashe                                            | <i>Crataegus erythropoda</i> Ashe                                                         |
| Rosaceae  | FAPA        | <i>Fallugia paradoxa</i> (D. Don) Endl. ex Torr.                             | <i>Fallugia paradoxa</i> (D. Don) Endl. ex Torr.                                          |
| Rosaceae  | FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i> (Porter) Staudt                  | <i>Fragaria americana</i> (Porter) Britt.                                                 |
| Rosaceae  | FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i> Duchesne                   | <i>Fragaria ovalis</i> (Lehm.) Rydb.                                                      |
| Rosaceae  | GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i> (Rydb.) Raup                 | <i>Geum macrophyllum</i> var. <i>perincisum</i> (Rydb.) Raup                              |
| Rosaceae  | GERI2       | <i>Geum rivale</i> L.                                                        | <i>Geum rivale</i> L.                                                                     |
| Rosaceae  | GEAL3       | <i>Geum aleppicum</i> Jacq.                                                  | <i>Geum strictum</i> Ait.                                                                 |
| Rosaceae  | GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i> (Pursh) Fassett                   | <i>Geum triflorum</i> var. <i>ciliatum</i> (Pursh) Fassett                                |
| Rosaceae  | HODU        | <i>Holodiscus dumosus</i> (Nutt. ex Hook.) Heller                            | <i>Holodiscus dumosus</i> (Nutt. ex Hook.) Heller                                         |
| Rosaceae  | PHMO4       | <i>Physocarpus monogynus</i> (Torr.) Coult.                                  | <i>Physocarpus monogynus</i> (Torr.) Coult.                                               |
| Rosaceae  | ARAN7       | <i>Argentina anserina</i> (L.) Rydb.                                         | <i>Potentilla anserina</i> L.                                                             |
| Rosaceae  | POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i> (Rydb.) Keck                | <i>Potentilla arguta</i> ssp. <i>convallaria</i> (Rydb.) Keck                             |
| Rosaceae  | POCO13      | <i>Potentilla concinna</i> Richards.                                         | <i>Potentilla concinna</i> Richards.                                                      |
| Rosaceae  | POCR4       | <i>Potentilla crinita</i> Gray                                               | <i>Potentilla crinita</i> Gray                                                            |
| Rosaceae  | PEFL15      | <i>Pentaphylloides floribunda</i> (Pursh) A. Love                            | <i>Potentilla fruticosa</i> auct. non L.                                                  |
| Rosaceae  | POHI6       | <i>Potentilla hippiana</i> Lehm.                                             | <i>Potentilla hippiana</i> Lehm.                                                          |
| Rosaceae  | PONO3       | <i>Potentilla norvegica</i> L.                                               | <i>Potentilla norvegica</i> L.                                                            |
| Rosaceae  | POPE8       | <i>Potentilla pennsylvanica</i> L.                                           | <i>Potentilla pennsylvanica</i> L.                                                        |
| Rosaceae  | POPU9       | <i>Potentilla pulcherrima</i> Lehm.                                          | <i>Potentilla pulcherrima</i> Lehm.                                                       |
| Rosaceae  | POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i> Gray                         | <i>Potentilla thurberi</i> var. <i>thurberi</i> Gray                                      |
| Rosaceae  | PRAM        | <i>Prunus americana</i> Marsh.                                               | <i>Prunus americana</i> Marsh.                                                            |
| Rosaceae  | PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i> (Dougl. ex Hook.) Walp.      | <i>Prunus emarginata</i> var. <i>emarginata</i> (Dougl. ex Hook.) Walp.                   |
| Rosaceae  | PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i> (A. Nels.) Sarg.            | <i>Prunus virginiana</i> var. <i>melanocarpa</i> (A. Nels.) Sarg.                         |
| Rosaceae  | PUTR2       | <i>Purshia tridentata</i> (Pursh) DC.                                        | <i>Purshia tridentata</i> (Pursh) DC.                                                     |
| Rosaceae  | RONU        | <i>Rosa nutkana</i> K. Presl                                                 | <i>Rosa nutkana</i> K. Presl                                                              |
| Rosaceae  | ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i> Lindl.                               | <i>Rosa woodsii</i> var. <i>fendleri</i> (Crepin) Rydb.                                   |
| Rosaceae  | ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i> Lindl.                               | <i>Rosa woodsii</i> var. <i>adenosepala</i> (Woot. & Standl.) W.C. Martin & C.R. Hutchins |
| Rosaceae  | RUPA        | <i>Rubus parviflorus</i> Nutt.                                               | <i>Rubus parviflorus</i> Nutt.                                                            |
| Rosaceae  | RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i> (Michx.) Focke                     | <i>Rubus strigosus</i> var. <i>arizonicus</i> (Greene) Kearney & Peebles                  |
| Rubiaceae | GAAP2       | <i>Galium aparine</i> L.                                                     | <i>Galium aparine</i> L.                                                                  |
| Rubiaceae | GAMEA       | <i>Galium mexicanum</i> ssp. <i>aspermum</i> (Gray) Dempster                 | <i>Galium aspermum</i> Gray                                                               |
| Rubiaceae | GABO2       | <i>Galium boreale</i> L.                                                     | <i>Galium boreale</i> L.                                                                  |
| Rubiaceae | GAFE        | <i>Galium fendleri</i> Gray                                                  | <i>Galium fendleri</i> Gray                                                               |
| Rubiaceae | GAMI        | <i>Galium microphyllum</i> Gray                                              | <i>Galium microphyllum</i> Gray                                                           |
| Rubiaceae | GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i> (Wieg.) Piper                 | <i>Galium tinctorium</i> var. <i>subbiflorum</i> (Wieg.) Fern.                            |
| Rutaceae  | PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> (Benth.) V. Bailey         | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> (Benth.) V. Bailey                      |

# FAMILY CON'T

| Family           | USDA Symbol | USDA NRCS PLANTS                                                           | Martin and Hutchins (1980)                                             |
|------------------|-------------|----------------------------------------------------------------------------|------------------------------------------------------------------------|
| Salicaceae       | POAN3       | <i>Populus angustifolia</i> James                                          | <i>Populus angustifolia</i> James                                      |
| Salicaceae       | PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i> (S. Wats.) Eckenwalder      | <i>Populus fremontii</i> var. <i>wislizeni</i> S. Wats.                |
| Salicaceae       | POTR5       | <i>Populus tremuloides</i> Michx.                                          | <i>Populus tremuloides</i> var. <i>aurea</i> (Tidestrom) Daniels       |
| Salicaceae       | SABE2       | <i>Salix bebbiana</i> Sarg.                                                | <i>Salix bebbiana</i> Sarg.                                            |
| Salicaceae       | SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i> (Nutt.) E. Murr.                   | <i>Salix caudata</i> (Nutt.) Heller                                    |
| Salicaceae       | SAEX        | <i>Salix exigua</i> Nutt.                                                  | <i>Salix exigua</i> Nutt.                                              |
| Salicaceae       | SAIR        | <i>Salix irrorata</i> Anderss.                                             | <i>Salix irrorata</i> Anderss.                                         |
| Salicaceae       | SASC        | <i>Salix scouleriana</i> Barratt ex Hook.                                  | <i>Salix scouleriana</i> Barratt ex Hook.                              |
| Santalaceae      | COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i> (A. DC.) Piehl               | <i>Comandra pallida</i> A. DC.                                         |
| Saxifragaceae    | HEPA11      | <i>Heuchera parvifolia</i> Nutt. ex Torr. & Gray                           | <i>Heuchera parvifolia</i> Nutt. ex Torr. & Gray                       |
| Saxifragaceae    | SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> (Wieg.) Piper       | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> (Wieg.) Piper   |
| Saxifragaceae    | SARH2       | <i>Saxifraga rhomboidea</i> Greene                                         | <i>Saxifraga rhomboidea</i> Greene                                     |
| Scrophulariaceae | BEPL        | <i>Besseya plantaginea</i> (James) Rydb.                                   | <i>Besseya plantaginea</i> (James) Rydb.                               |
| Scrophulariaceae | CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i> Dougl. ex Hook.              | <i>Castilleja confusa</i> Greene                                       |
| Scrophulariaceae | CAIN14      | <i>Castilleja integra</i> Gray                                             | <i>Castilleja integra</i> Gray                                         |
| Scrophulariaceae | CALI4       | <i>Castilleja linariifolia</i> Benth.                                      | <i>Castilleja linariifolia</i> Benth.                                  |
| Scrophulariaceae | CALI5       | <i>Castilleja lineata</i> Greene                                           | <i>Castilleja lineata</i> Greene                                       |
| Scrophulariaceae | CAMI12      | <i>Castilleja miniata</i> Dougl. ex Hook.                                  | <i>Castilleja miniata</i> Dougl. ex Hook.                              |
| Scrophulariaceae | CAMI13      | <i>Castilleja minor</i> (Gray) Gray                                        | <i>Castilleja minor</i> (Gray) Gray                                    |
| Scrophulariaceae | CARH4       | <i>Castilleja rhexiifolia</i> Rydb.                                        | <i>Castilleja rhexiifolia</i> Rydb.                                    |
| Scrophulariaceae | COWR2       | <i>Cordylanthus wrightii</i> Gray                                          | <i>Cordylanthus wrightii</i> Gray                                      |
| Scrophulariaceae | LIAQ        | <i>Limosella aquatica</i> L.                                               | <i>Limosella aquatica</i> L.                                           |
| Scrophulariaceae | LIVU2       | <i>Linaria vulgaris</i> P. Mill.                                           | <i>Linaria vulgaris</i> P. Mill.                                       |
| Scrophulariaceae | MAAN9       | <i>Maurandella antirrhiniflora</i> (Humb. & Bonpl. ex Willd.) Rothm.       | <i>Maurandya antirrhiniflora</i> Humb. & Bonpl. ex Willd.              |
| Scrophulariaceae | MIFL2       | <i>Mimulus floribundus</i> Lindl.                                          | <i>Mimulus floribundus</i> Lindl.                                      |
| Scrophulariaceae | MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i> (Torr. & Gray ex Benth.) Gray | <i>Mimulus glabratus</i> var. <i>fremontii</i> (Benth.) A.L. Grant     |
| Scrophulariaceae | MIGU        | <i>Mimulus guttatus</i> DC.                                                | <i>Mimulus guttatus</i> DC.                                            |
| Scrophulariaceae | ORLU2       | <i>Orthocarpus luteus</i> Nutt.                                            | <i>Orthocarpus luteus</i> Nutt.                                        |
| Scrophulariaceae | ORPU2       | <i>Orthocarpus purpureoalbus</i> Gray ex S. Wats.                          | <i>Orthocarpus purpureoalbus</i> Gray ex S. Wats.                      |
| Scrophulariaceae | PEPR7       | <i>Pedicularis procera</i> Gray                                            | <i>Pedicularis grayi</i> A. Nels.                                      |
| Scrophulariaceae | PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i> (Benth.) Keck                | <i>Penstemon barbatus</i> ssp. <i>torreyi</i> (Benth.) Keck            |
| Scrophulariaceae | PEEA        | <i>Penstemon eatonii</i> Gray                                              | <i>Penstemon eatonii</i> Gray                                          |
| Scrophulariaceae | PEFE        | <i>Penstemon fendleri</i> Torr. & Gray                                     | <i>Penstemon fendleri</i> Torr. & Gray                                 |
| Scrophulariaceae | PEJA        | <i>Penstemon jamesii</i> Benth.                                            | <i>Penstemon jamesii</i> Benth.                                        |
| Scrophulariaceae | PELE2       | <i>Penstemon lentus</i> Pennell                                            | <i>Penstemon lentus</i> Pennell                                        |
| Scrophulariaceae | PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i> (A. Nels.) Keck     | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i> (A. Nels.) Keck |
| Scrophulariaceae | PEOL        | <i>Penstemon oliganthus</i> Woot. & Standl.                                | <i>Penstemon oliganthus</i> Woot. & Standl.                            |
| Scrophulariaceae | PERY        | <i>Penstemon rydbergii</i> A. Nels.                                        | <i>Penstemon rydbergii</i> A. Nels.                                    |
| Scrophulariaceae | PESE11      | <i>Penstemon secundiflorus</i> Benth.                                      | <i>Penstemon secundiflorus</i> Benth.                                  |
| Scrophulariaceae | PEVI4       | <i>Penstemon virgatus</i> Gray                                             | <i>Penstemon virgatus</i> Gray                                         |

# FAMILY CON'T

| Family           | USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                          |
|------------------|-------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Scrophulariaceae | PEWH        | <i>Penstemon whippleanus</i> Gray                                                      | <i>Penstemon whippleanus</i> Gray                                   |
| Scrophulariaceae | VETH        | <i>Verbascum thapsus</i> L.                                                            | <i>Verbascum thapsus</i> L.                                         |
| Scrophulariaceae | VEAM2       | <i>Veronica americana</i> Schwein. ex Benth.                                           | <i>Veronica americana</i> Schwein. ex Benth.                        |
| Scrophulariaceae | VEAR        | <i>Veronica arvensis</i> L.                                                            | <i>Veronica arvensis</i> L.                                         |
| Scrophulariaceae | VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i> (Kunth) Pennell                       | <i>Veronica peregrina</i> var. <i>xalapensis</i> (Kunth) Pennell    |
| Scrophulariaceae | VESE        | <i>Veronica serpyllifolia</i> L.                                                       | <i>Veronica serpyllifolia</i> L.                                    |
| Scrophulariaceae | VEWO2       | <i>Veronica wormsjoldii</i> Roemer & J.A. Schultes                                     | <i>Veronica wormsjoldii</i> Roemer & J.A. Schultes                  |
| Simaroubaceae    | AIAL        | <i>Ailanthus altissima</i> (P. Mill.) Swingle                                          | <i>Ailanthus altissima</i> (P. Mill.) Swingle                       |
| Solanaceae       | CHCO        | <i>Chamaesaracha coniodes</i> (Moric. ex Dunal) Britt.                                 | <i>Chamaesaracha coniodes</i> (Moric. ex Dunal) Britt.              |
| Solanaceae       | CHCO2       | <i>Chamaesaracha coronopus</i> (Dunal) Gray                                            | <i>Chamaesaracha coronopus</i> (Dunal) Gray                         |
| Solanaceae       | DAWR2       | <i>Datura wrightii</i> Regel                                                           | <i>Datura meteloides</i> DC. ex Dunal                               |
| Solanaceae       | HYNI        | <i>Hyoscyamus niger</i> L.                                                             | <i>Hyoscyamus niger</i> L.                                          |
| Solanaceae       | LYPA        | <i>Lycium pallidum</i> Miers                                                           | <i>Lycium pallidum</i> Miers                                        |
| Solanaceae       | NIAT        | <i>Nicotiana attenuata</i> Torr. ex S. Wats.                                           | <i>Nicotiana attenuata</i> Torr. ex S. Wats.                        |
| Solanaceae       | PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i> (Rydb.) Waterfall ex Kartesz & Gandhi | <i>Physalis foetens</i> var. <i>neomexicana</i> (Rydb.) Waterfall   |
| Solanaceae       | PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i> (Gray) Cronq.                         | <i>Physalis hederifolia</i> var. <i>cordifolia</i> (Gray) Waterfall |
| Solanaceae       | PHPU7       | <i>Physalis pubescens</i> L.                                                           | <i>Physalis pubescens</i> L.                                        |
| Solanaceae       | SOAM        | <i>Solanum americanum</i> P. Mill.                                                     | <i>Solanum americanum</i> P. Mill.                                  |
| Solanaceae       | SODO        | <i>Solanum douglasii</i> Dunal                                                         | <i>Solanum douglasii</i> Dunal                                      |
| Solanaceae       | SOEL        | <i>Solanum elaeagnifolium</i> Cav.                                                     | <i>Solanum elaeagnifolium</i> Cav.                                  |
| Solanaceae       | SOJA        | <i>Solanum jamesii</i> Torr.                                                           | <i>Solanum jamesii</i> Torr.                                        |
| Solanaceae       | SOPT3       | <i>Solanum ptychanthum</i> Dunal                                                       | <i>Solanum nigrum</i> auct. non L.                                  |
| Solanaceae       | SORO        | <i>Solanum rostratum</i> Dunal                                                         | <i>Solanum rostratum</i> Dunal                                      |
| Solanaceae       | SOSA        | <i>Solanum sarrachoides</i> Sendtner                                                   | <i>Solanum sarrachoides</i> Sendtner                                |
| Solanaceae       | SOTR        | <i>Solanum triflorum</i> Nutt.                                                         | <i>Solanum triflorum</i> Nutt.                                      |
| Tamaricaceae     | TAGA        | <i>Tamarix gallica</i> L.                                                              | <i>Tamarix gallica</i> L.                                           |
| Tamaricaceae     | TACH2       | <i>Tamarix chinensis</i> Lour.                                                         | <i>Tamarix pentandra</i> Pallas                                     |
| Typhaceae        | TYLA        | <i>Typha latifolia</i> L.                                                              | <i>Typha latifolia</i> L.                                           |
| Ulmaceae         | CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i> (Torr.) L. Benson                       | <i>Celtis reticulata</i> Torr.                                      |
| Urticaceae       | URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i> (Ait.) Seland.                               | <i>Urtica dioica</i> var. <i>procera</i> (Muhl. ex Willd.) Weddell  |
| Urticaceae       | URGR        | <i>Urtica gracilentata</i> Greene                                                      | <i>Urtica gracilentata</i> Greene                                   |
| Urticaceae       | URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i> (Ait.) Seland.                               | <i>Urtica gracilis</i> Ait.                                         |
| Valerianaceae    | VAAR3       | <i>Valeriana arizonica</i> Gray                                                        | <i>Valeriana arizonica</i> Gray                                     |
| Valerianaceae    | VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i> Rydb.                                 | <i>Valeriana capitata</i> ssp. <i>acutiloba</i> (Rydb.) F.G. Mey.   |
| Verbenaceae      | GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> (Nutt.) Nutt.               | <i>Verbena bipinnatifida</i> Nutt.                                  |
| Verbenaceae      | VEBR        | <i>Verbena bracteata</i> Lag. & Rodr.                                                  | <i>Verbena bracteata</i> Lag. & Rodr.                               |
| Verbenaceae      | VEBR        | <i>Verbena bracteata</i> Lag. & Rodr.                                                  | <i>Verbena imbricata</i> Woot. & Standl.                            |
| Verbenaceae      | HEMA        | <i>Verbena macdougalii</i> Heller                                                      | <i>Verbena macdougalii</i> Heller                                   |
| Verbenaceae      | GLWR        | <i>Glandularia wrightii</i> (Gray) Umber                                               | <i>Verbena wrightii</i> Gray                                        |

## FAMILY CON'T

| Family         | USDA Symbol | USDA NRCS PLANTS                                                                   | Martin and Hutchins (1980)                                                         |
|----------------|-------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Violaceae      | VIAD        | <i>Viola adunca</i> Sm.                                                            | <i>Viola adunca</i> Sm.                                                            |
| Violaceae      | VICA4       | <i>Viola canadensis</i> L.                                                         | <i>Viola canadensis</i> L.                                                         |
| Violaceae      | VISO        | <i>Viola sororia</i> Willd.                                                        | <i>Viola nephrophylla</i> Greene                                                   |
| Violaceae      | VIPE2       | <i>Viola pedatifida</i> G. Don                                                     | <i>Viola pedatifida</i> G. Don                                                     |
| Viscaceae      | ARDI3       | <i>Arceuthobium divaricatum</i> Engelm.                                            | <i>Arceuthobium divaricatum</i> Engelm.                                            |
| Viscaceae      | ARDO        | <i>Arceuthobium douglasii</i> Engelm.                                              | <i>Arceuthobium douglasii</i> Engelm.                                              |
| Viscaceae      | ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i> (Engelm.) Hawksworth & Wiens | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i> (Engelm.) Hawksworth & Wiens |
| Viscaceae      | PHJU        | <i>Phoradendron juniperinum</i> Engelm.                                            | <i>Phoradendron juniperinum</i> Engelm.                                            |
| Vitaceae       | PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> (L.) Planch.           | <i>Parthenocissus inserta</i> (Kerner) Fritsch                                     |
| Vitaceae       | VIAR2       | <i>Vitis arizonica</i> Engelm.                                                     | <i>Vitis arizonica</i> Engelm.                                                     |
| Vitaceae       | VIVU        | <i>Vitis vulpina</i> L.                                                            | <i>Vitis vulpina</i> L.                                                            |
| Zygophyllaceae | KAHI        | <i>Kallstroemia hirsutissima</i> Vail ex Small                                     | <i>Kallstroemia hirsutissima</i> Vail ex Small                                     |
| Zygophyllaceae | TRTE        | <i>Tribulus terrestris</i> L.                                                      | <i>Tribulus terrestris</i> L.                                                      |

### Key for heading acronyms and abbreviations:

Family = species sorted by family.

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).



## NOMENCLATURE



Wavyleaf Thistle



## NOMENCLATURE

| USDA Symbol* | USDA NRCS PLANTS                                                             | Martin and Hutchins (1980)                                              | Synonyms as Found in References                                                                              |
|--------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| ABCO         | <i>Abies concolor</i> (Gord. & Glend.) Lindl. ex Hildebr.                    | <i>Abies concolor</i> (Gord. & Glend.) Lindl. ex Hildebr.               | None found                                                                                                   |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i> (Hook.) Nutt.                 | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i> (Hook.) Nutt.            | None found                                                                                                   |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i> (Greene) Kearney & Peebles      | <i>Acer glabrum</i> var. <i>neomexicanum</i> (Greene) Kearney & Peebles | <i>Acer neomexicanum</i>                                                                                     |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i> (Britt.) Sarg.                      | <i>Acer negundo</i> var. <i>interius</i> (Britt.) Sarg.                 | <i>Acer interior</i> Britt.; <i>Rulac interior</i> (Britt.) Nieuwl; <i>Negundo interius</i> (Britt.) Rydb.   |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> DC.                     | <i>Achillea millefolium</i> var. <i>occidentalis</i> DC.                | <i>Achillea millefolium</i> var. <i>lanulosa</i> (Nutt.) Piper; <i>A. lanulosa</i> subsp. <i>typica</i> Keck |
| ACCO4        | <i>Aconitum columbianum</i> Nutt.                                            | <i>Aconitum columbianum</i> Nutt.                                       | <i>Aconitum lutescens</i> A. Nels.; <i>A. arizonicum</i> Greene; <i>A. mogollonicum</i> Greene               |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i> (Nutt.) Hulten                        | <i>Actaea arguta</i> var. <i>viridiflora</i> (Greene) Tidestrom         | <i>Actaea viridiflora</i> Greene                                                                             |
| AECY         | <i>Aegilops cylindrica</i> Host                                              | <i>Aegilops cylindrica</i> Host                                         |                                                                                                              |
| AGPA         | <i>Agastache pallidiflora</i> (Heller) Rydb.                                 | <i>Agastache pallidiflora</i> (Heller) Rydb.                            | None found                                                                                                   |
| AGLL         | <i>Agoseris glauca</i> var. <i>laciniata</i> (D.C. Eat.) Smiley              | <i>Agoseris arizonica</i> Greene                                        | None found                                                                                                   |
| AGAU2        | <i>Agoseris aurantiaca</i> (Hook.) Greene                                    | <i>Agoseris aurantiaca</i> (Hook.) Greene                               | <i>Agoseris purpurea</i> (Gray) Greene; <i>A. greenei</i> (Gray) Rydb.; <i>Troximon aurantiacum</i>          |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i> (Pursh) Raf.                       | <i>Agoseris glauca</i> var. <i>glauca</i> (Pursh) Raf.                  | <i>Toximon glaucum</i> Pursh; <i>Agoseris pumila</i> (Nutt.) Rydb.; <i>A. laciniata</i> (Nutt.) Greene       |
| AGLL         | <i>Agoseris glauca</i> var. <i>laciniata</i> (D.C. Eat.) Smiley              | <i>Agoseris glauca</i> var. <i>parviflora</i> (Nutt.) Rydb.             | <i>Troximon parviflorum</i> Nutt.; <i>Agoseris parviflora</i> (Nutt.) Greene                                 |
| AGGR2        | <i>Agrimonia gryposepala</i> Wallr.                                          | <i>Agrimonia gryposepala</i> Wallr.                                     | None found                                                                                                   |
| AGST         | <i>Agrimonia striata</i> Michx.                                              | <i>Agrimonia striata</i> Michx.                                         | <i>Agrimonia brittoniana</i> Bickn.; <i>A. brittoniana</i> var. <i>occidentalis</i> Bickn.                   |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i> (Scribn. & J.G. Sm.) Gould | <i>Agropyron dasystachyum</i> (Hook.) Scribn. & J.G. Sm.                |                                                                                                              |
| AGDE2        | <i>Agropyron desertorum</i> (Fisch. ex Link) J.A. Schultes                   | <i>Agropyron desertorum</i> (Fisch. ex Link) J.A. Schultes              | <i>Agropyron cristatum</i> (L.) Gaertn. var. <i>pectinatum</i>                                               |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i> (Scribn. & J.G. Sm.) A. Love  | <i>Agropyron latiglume</i> (Scribn. & J.G. Sm.) Rydb.                   | None found                                                                                                   |
| ELPS         | <i>Elymus X pseudorepens</i> (Scribn. & J.G. Sm.) Barkworth & Dewey          | <i>Agropyron pseudorepens</i> Scribn. & J.G. Sm.                        | <i>Elytrigia pseudorepens</i> Scribn. & Smith                                                                |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i> (L.) Desv. ex B.D. Jackson        | <i>Agropyron repens</i> (L.) Beauv.                                     |                                                                                                              |
| PASM         | <i>Pascopyrum smithii</i> (Rydb.) A. Love                                    | <i>Agropyron smithii</i> Rydb.                                          | <i>Elytrigia smithii</i> (Rydb.) D. B. Dewey; <i>Agropyron occidentale</i> Scribn.                           |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i> (Link) A. & D. Love       | <i>Agropyron subsecundum</i> (Link) A.S. Hitchc.                        | <i>Agropyron richardsonii</i> (Trin.) Schrad.                                                                |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i> (Link) Gould ex Shinnars | <i>Agropyron trachycaulum</i> (Link) Malte ex H.F. Lewis                | <i>Elymus trachycaulus</i> (Link) Shinnars; <i>Agropyron pauciflorum</i> (Schwein) Hitchc.                   |

\* A key for heading acronyms and abbreviations is on the last page of this table.

## NOMENCLATURE CON'T

| USDA Symbol         | USDA NRCS PLANTS                                                                                                        | Martin and Hutchins (1980)                                         | Synonyms as Found in References                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| AGGI2               | <i>Agrostis gigantea</i> Roth                                                                                           | <i>Agrostis alba</i> auct. non L.                                  | <i>Agrostis stolonifera</i> L.                                                                                    |
| AGEX                | <i>Agrostis exarata</i> Trin.                                                                                           | <i>Agrostis exarata</i> Trin.                                      |                                                                                                                   |
| AGID                | <i>Agrostis idahoensis</i> Nash                                                                                         | <i>Agrostis idahoensis</i> Nash                                    | None found                                                                                                        |
| AGPE                | <i>Agrostis perennans</i> (Walt.) Tuckerman                                                                             | <i>Agrostis perennans</i> (Walt.) Tuckerman                        |                                                                                                                   |
| AGSC5               | <i>Agrostis scabra</i> Willd.                                                                                           | <i>Agrostis scabra</i> Willd.                                      | None found                                                                                                        |
| POVI9               | <i>Polypogon viridis</i> (Gouan) Breistr.                                                                               | <i>Agrostis semiverticillata</i> (Forsk.) C. Christens.            |                                                                                                                   |
| AGST2               | <i>Agrostis stolonifera</i> L.                                                                                          | <i>Agrostis stolonifera</i> L.                                     |                                                                                                                   |
| AIAL                | <i>Ailanthus altissima</i> (P. Mill.) Swingle                                                                           | <i>Ailanthus altissima</i> (P. Mill.) Swingle                      | <i>Ailanthus glandulosa</i> Desf.                                                                                 |
| ALCEO               | <i>Allium cernuum</i> var. <i>obtusum</i> Cockerell ex J.F. Macbr.                                                      | <i>Allium cernuum</i> var. <i>obtusum</i> Cockerell ex J.F. Macbr. | <i>Allium recurvatum</i> Rydb.                                                                                    |
| ALGE                | <i>Allium geyeri</i> S. Wats.                                                                                           | <i>Allium geyeri</i> S. Wats.                                      | <i>Allium funiculosum</i> A. Nels.                                                                                |
| ALMA4               | <i>Allium macropetalum</i> Rydb.                                                                                        | <i>Allium macropetalum</i> Rydb.                                   |                                                                                                                   |
| ALTE                | <i>Allium textile</i> A. Nels. & J.F. Macbr.                                                                            | <i>Allium textile</i> A. Nels. & J.F. Macbr.                       | <i>Allium reticulatum</i> Fraser                                                                                  |
| ALOB2               | <i>Alnus oblongifolia</i> Torr.                                                                                         | <i>Alnus oblongifolia</i> Torr.                                    | None found                                                                                                        |
| ALINT               | <i>Alnus incana</i> ssp. <i>tenuifolia</i> (Nutt.) Breitung                                                             | <i>Alnus tenuifolia</i> Nutt.                                      | None found                                                                                                        |
| ALAE                | <i>Alopecurus aequalis</i> Sobol.                                                                                       | <i>Alopecurus aequalis</i> Sobol.                                  |                                                                                                                   |
| ALRO3               | <i>Alcea rosea</i> L.                                                                                                   | <i>Althaea rosea</i> (L.) Cav.                                     |                                                                                                                   |
| ALAL3               | <i>Alyssum alysioides</i> L.                                                                                            | <i>Alyssum alysioides</i> L.                                       |                                                                                                                   |
| AMAL                | <i>Amaranthus albus</i> L.                                                                                              | <i>Amaranthus albus</i> L.                                         |                                                                                                                   |
| AMAL; AMBL          | <i>Amaranthus albus</i> L.; <i>Amaranthus blitoides</i> S. Wats.                                                        | <i>Amaranthus graecizans</i> auct. non L.                          | <i>Amaranthus blitoides</i> Wats.                                                                                 |
| AMHY                | <i>Amaranthus hybridus</i> L.                                                                                           | <i>Amaranthus hybridus</i> L.                                      | None found                                                                                                        |
| AMHY2               | <i>Amaranthus hypochondriacus</i> L.                                                                                    | <i>Amaranthus leucocarpus</i> S. Wats.                             |                                                                                                                   |
| AMPA                | <i>Amaranthus palmeri</i> S. Wats.                                                                                      | <i>Amaranthus palmeri</i> S. Wats.                                 | None found                                                                                                        |
| AMPO2               | <i>Amaranthus powellii</i> S. Wats.                                                                                     | <i>Amaranthus powellii</i> S. Wats.                                |                                                                                                                   |
| AMRE                | <i>Amaranthus retroflexus</i> L.                                                                                        | <i>Amaranthus retroflexus</i> L.                                   | None found                                                                                                        |
| AMAR; AMBI;<br>AMWA | <i>Amaranthus arenicola</i> I.M. Johnston; <i>Amaranthus bigelovii</i> Uline & Bray; <i>Amaranthus watsonii</i> Standl. | <i>Amaranthus torreyi</i> auct. non (Gray) Benth. ex S. Wats.      | None found                                                                                                        |
| AMAR2               | <i>Ambrosia artemisiifolia</i> L.                                                                                       | <i>Ambrosia artemisiifolia</i> L.                                  | <i>Ambrosia elatior</i> L.; <i>A. artemisiifolia</i> var. <i>elatior</i> (L.) Descourtils; <i>A. diversifolia</i> |
| AMPS                | <i>Ambrosia psilostachya</i> DC.                                                                                        | <i>Ambrosia psilostachya</i> DC.                                   | None found                                                                                                        |
| AMUTU               | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i> Koehne                                                               | <i>Amelanchier bakeri</i> Greene                                   |                                                                                                                   |
| AMUTU               | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i> Koehne                                                               | <i>Amelanchier oreophila</i> A. Nels.                              | None found                                                                                                        |
| AMPU5               | <i>Amelanchier pumila</i> (Torr. & Gray) Nutt. ex M. Roemer                                                             | <i>Amelanchier polycarpa</i> Greene                                | None found                                                                                                        |
| AMUT                | <i>Amelanchier utahensis</i> Koehne                                                                                     | <i>Amelanchier utahensis</i> Koehne                                | <i>Amelanchier crenata</i> Greene; <i>A. rubescens</i> Greene                                                     |
| AMCA6               | <i>Amorpha canescens</i> Pursh                                                                                          | <i>Amorpha canescens</i> Pursh                                     | None found                                                                                                        |
| AMFR                | <i>Amorpha fruticosa</i> L.                                                                                             | <i>Amorpha fruticosa</i> var. <i>angustifolia</i> Pursh            | None found                                                                                                        |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                      | Martin and Hutchins (1980)                                       | Synonyms as Found in References                                                                              |
|-------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| AMNA        | <i>Amorpha nana</i> Nutt.                                                             | <i>Amorpha nana</i> Nutt.                                        | <i>Amorpha microphylla</i> Pursh                                                                             |
| ANAR        | <i>Anagallis arvensis</i> L.                                                          | <i>Anagallis arvensis</i> L.                                     | None found                                                                                                   |
| ANMA        | <i>Anaphalis margaritacea</i> (L.) Benth. & Hook. f.                                  | <i>Anaphalis margaritacea</i> (L.) Benth. & Hook. f.             | <i>Anaphalis margaritacea</i> var. <i>angustior</i> ; A. m. v. <i>revoluta</i> ; A. m. v. <i>intercedens</i> |
| BOBAB       | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i> (Lag.) Herter                   | <i>Andropogon barbinodis</i> Lag.                                | <i>Bothriochloa barbinoides</i> (Lag.) Herter; <i>Amphilophis barbinodis</i> (Lag.) Nash                     |
| ANGE        | <i>Andropogon gerardii</i> Vitman                                                     | <i>Andropogon gerardii</i> Vitman                                | <i>Andropogon furcatus</i> Muhl.; A. <i>provincialis</i> Lam.                                                |
| ANHA        | <i>Andropogon hallii</i> Hack.                                                        | <i>Andropogon hallii</i> Hack.                                   |                                                                                                              |
| BOSA        | <i>Bothriochloa saccharoides</i> (Sw.) Rydb.                                          | <i>Andropogon saccharoides</i> Sw.                               | None found                                                                                                   |
| SCSCS2      | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i> (Michx.) Nash                    | <i>Andropogon scoparius</i> Michx.                               | <i>Schizachyrium scoparium</i> (Michx.) Nash                                                                 |
| BOSP3       | <i>Bothriochloa springfieldii</i> (Gould) Parodi                                      | <i>Andropogon springfieldii</i> Gould                            | <i>Bothriochloa springfieldii</i> (Gould) Parodi                                                             |
| BOWR2       | <i>Bothriochloa wrightii</i> (Hack.) Henr.                                            | <i>Andropogon wrightii</i> Hack.                                 | <i>Bothriochloa wrightii</i> (Hack.) Henrard; <i>Amphilophis wrightii</i> (Hack.) Nash                       |
| ANOC2       | <i>Androsace occidentalis</i> var. <i>occidentalis</i> Pursh                          | <i>Androsace occidentalis</i> var. <i>occidentalis</i> Pursh     |                                                                                                              |
| ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i> (Gray) G.T. Robbins           | <i>Androsace septentrionalis</i> var. <i>subulifera</i> Gray     | <i>Androsace diffusa</i> Small; A. <i>pinetorum</i> Greene; A. <i>subulifera</i> (Gray) Greene               |
| ANCY        | <i>Anemone cylindrica</i> Gray                                                        | <i>Anemone cylindrica</i> Gray                                   | None found                                                                                                   |
| ANPI2       | <i>Angelica pinnata</i> S. Wats.                                                      | <i>Angelica pinnata</i> S. Wats.                                 | <i>Angelica leporina</i> Wats.                                                                               |
| ANCR2       | <i>Anoda cristata</i> (L.) Schlecht.                                                  | <i>Anoda cristata</i> var. <i>digitata</i> (Gray) Hochr.         | <i>Anoda arizonica</i> var. <i>digitata</i> Gray                                                             |
| ANMA5       | <i>Antennaria marginata</i> Greene                                                    | <i>Antennaria marginata</i> Greene                               | <i>Antennaria fendleria</i> Greene; A. <i>peramoena</i> Greene                                               |
| ANPA4       | <i>Antennaria parvifolia</i> Nutt.                                                    | <i>Antennaria parvifolia</i> Nutt.                               | <i>Antennaria aprica</i> Greene                                                                              |
| ANRO2       | <i>Antennaria rosea</i> Greene                                                        | <i>Antennaria rosea</i> Greene                                   |                                                                                                              |
| ANRO3       | <i>Antennaria rosulata</i> Rydb.                                                      | <i>Antennaria rosulata</i> Rydb.                                 | None found                                                                                                   |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i> (Benth.) B.L. Turner & Birdsong | <i>Aphanostephus arizonicus</i> Gray                             |                                                                                                              |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> L.                      | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> L. | <i>Apocynum scopulorum</i> Greene                                                                            |
| APCA        | <i>Apocynum cannabinum</i> L.                                                         | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i> A. DC.        | <i>Apocynum ambigens</i> Greene                                                                              |
| APFL        | <i>Apocynum X floribundum</i> Greene (pro sp.)                                        | <i>Apocynum medium</i> var. <i>floribundum</i> (Greene) Woods.   |                                                                                                              |
| AQCO        | <i>Aquilegia coerulea</i> James                                                       | <i>Aquilegia coerulea</i> James                                  | None found                                                                                                   |
| AQCH        | <i>Aquilegia chrysantha</i> Gray                                                      | <i>Aquilegia chrysantha</i> Gray                                 | <i>Aquilegia leptocarpa</i> var. <i>flava</i> Gray                                                           |
| AQEL        | <i>Aquilegia elegantula</i> Greene                                                    | <i>Aquilegia elegantula</i> Greene                               | None found                                                                                                   |
| AQTR        | <i>Aquilegia tritemata</i> Payson                                                     | <i>Aquilegia tritemata</i> Payson                                | None found                                                                                                   |
| ARDI2       | <i>Arabis X divaricarpa</i> A. Nels. (pro sp.)                                        | <i>Arabis X divaricarpa</i> A. Nels. (pro sp.)                   |                                                                                                              |
| ARDR        | <i>Arabis drummondii</i> Gray                                                         | <i>Arabis drummondii</i> Gray                                    | <i>Arabis ozyphylla</i> Greene                                                                               |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i> (S. Wats.) Greene                         | <i>Arabis fendleri</i> var. <i>fendleri</i> (S. Wats.) Greene    | None found                                                                                                   |
| ARGL        | <i>Arabis glabra</i> (L.) Benth.                                                      | <i>Arabis glabra</i> (L.) Benth.                                 | <i>Turritas glabra</i> L.                                                                                    |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                   | Martin and Hutchins (1980)                                                         | Synonyms as Found in References                                                                                   |
|-------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i> (M. Hopkins) Rollins                  | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i> (M. Hopkins) Rollins                  | None found                                                                                                        |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i> (Graham) Rydb.                    | <i>Arabis holboellii</i> var. <i>retrofracta</i> (Graham) Rydb.                    | <i>Arabis consanguinea</i> Greene; <i>A. retrofracta</i> Graham                                                   |
| ARPE2       | <i>Arabis perennans</i> S. Wats.                                                   | <i>Arabis perennans</i> S. Wats.                                                   | <i>Arabis eremophila</i> Greene                                                                                   |
| ARRA        | <i>Aralia racemosa</i> L.                                                          | <i>Aralia racemosa</i> L.                                                          | <i>Aralia bicrenata</i> Woot. & Standl.                                                                           |
| ARDI3       | <i>Arceuthobium divaricatum</i> Engelm.                                            | <i>Arceuthobium divaricatum</i> Engelm.                                            | See Foxx & Tierney (1985)                                                                                         |
| ARDO        | <i>Arceuthobium douglasii</i> Engelm.                                              | <i>Arceuthobium douglasii</i> Engelm.                                              | <i>Razoumofskyia douglasii</i> (Engelm.) Kuntze                                                                   |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i> (Engelm.) Hawksworth & Wiens | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i> (Engelm.) Hawksworth & Wiens | <i>Razoumofskyia cryptopoda</i> (Engelm.) Cov.                                                                    |
| ARPU5       | <i>Arctostaphylos pungens</i> Kunth                                                | <i>Arctostaphylos pungens</i> Kunth                                                | None found                                                                                                        |
| ARUV        | <i>Arctostaphylos uva-ursi</i> (L.) Spreng.                                        | <i>Arctostaphylos uva-ursi</i> (L.) Spreng.                                        | <i>Arbutus uva-ursi</i> L.; <i>Daphnidostylis fendleriana</i> Klotzsch                                            |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i> (Gray) Maguire                       | <i>Arenaria confusa</i> Rydb.                                                      |                                                                                                                   |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i> Gray                                 | <i>Arenaria fendleri</i> var. <i>fendleri</i> Gray                                 | None found                                                                                                        |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i> (Maguire) Maguire                  | <i>Arenaria fendleri</i> var. <i>brevifolia</i> (Maguire) Maguire                  | None found                                                                                                        |
| ARLAS       | <i>Arenaria lanuginosa</i> var. <i>saxosa</i> Gray                                 | <i>Arenaria saxosa</i> Woot. & Standl.                                             |                                                                                                                   |
| MOMA3       | <i>Moehringia macrophylla</i> (Hook.) Fenzl                                        | <i>Arenaria macrophylla</i> Hook.                                                  | <i>Mochringia macrophylla</i> (Hook.) Torr.                                                                       |
| ARAD        | <i>Aristida adscensionis</i> L.                                                    | <i>Aristida adscensionis</i> L.                                                    | <i>Aristida bromoides</i> H. B. K.                                                                                |
| ARAR6       | <i>Aristida arizonica</i> Vasey                                                    | <i>Aristida arizonica</i> Vasey                                                    | None found                                                                                                        |
| ARHA3       | <i>Aristida havardii</i> Vasey                                                     | <i>Aristida barbata</i> Fourn.                                                     | <i>Aristida havardii</i> Vasey; <i>A. dissita</i> I. M. Johnst.                                                   |
| ARDI5       | <i>Aristida divaricata</i> Humb. & Bonpl. ex Willd.                                | <i>Aristida divaricata</i> Humb. & Bonpl. ex Willd.                                | None found                                                                                                        |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i> (Steud.) Vasey                    | <i>Aristida fendleriana</i> Steud.                                                 | None found                                                                                                        |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i> (Steud.) Vasey                      | <i>Aristida longiseta</i> Steud.                                                   | None found                                                                                                        |
| ARPU9       | <i>Aristida purpurea</i> Nutt.                                                     | <i>Aristida purpurea</i> Nutt.                                                     | None found                                                                                                        |
| ARBI3       | <i>Artemisia bigelovii</i> Gray                                                    | <i>Artemisia bigelovii</i> Gray                                                    | None found                                                                                                        |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i> (Nutt.) Hall & Clements           | <i>Artemisia campestris</i> ssp. <i>pacifica</i> (Nutt.) Hall & Clements           | <i>Artemisia pacifica</i> Nutt; <i>A. scouleriana</i> (Bess.) Rydb.                                               |
| ARCA13      | <i>Artemisia cana</i> Pursh                                                        | <i>Artemisia cana</i> Pursh                                                        | None found                                                                                                        |
| ARCA14      | <i>Artemisia carruthii</i> Wood ex Carruth.                                        | <i>Artemisia carruthii</i> var. <i>wrightii</i> (Gray) Blake                       | <i>Artemisia kansana</i> Britt; <i>A. wrightii</i> Gray; <i>A. carruthii</i> var. <i>wrightii</i> (Gray) Blake    |
| ARDR4       | <i>Artemisia dracunculus</i> L.                                                    | <i>Artemisia dracunculus</i> L.                                                    | <i>Artemisia dracunculoides</i> v. <i>dracunculina</i> (Wats.) Blake; <i>A. d. Pursh</i> ; <i>A. dracunculina</i> |
| ARFI2       | <i>Artemisia filifolia</i> Torr.                                                   | <i>Artemisia filifolia</i> Torr.                                                   | None found                                                                                                        |
| ARFR3       | <i>Artemisia franserioides</i> Greene                                              | <i>Artemisia franserioides</i> Greene                                              | None found                                                                                                        |
| ARFR4       | <i>Artemisia frigida</i> Willd.                                                    | <i>Artemisia frigida</i> Willd.                                                    | None found                                                                                                        |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i> (Woot.) Keck                       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i> (Woot.) Keck                       |                                                                                                                   |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> Nutt.                         | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> Nutt.                         | See Foxx & Tierney (1985)                                                                                         |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i> (Willd. ex Spreng.) Keck         | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i> (Willd. ex Spreng.) Keck         |                                                                                                                   |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                           | Martin and Hutchins (1980)                                    | Synonyms as Found in References                                                  |
|-------------|----------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------|
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i> (Rydb.) Keck              | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i> (Rydb.) Keck | <i>Artemisia redolens</i> Gray                                                   |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i> (Gray) Keck              | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i> (Gray) Keck |                                                                                  |
| ARTR2       | <i>Artemisia tridentata</i> Nutt.                                          | <i>Artemisia tridentata</i> Nutt.                             | <i>Artemisia petrophila</i> Woot. & Standl.                                      |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i> (Dcne.) Woods.              | <i>Asclepias asperula</i> ssp. <i>asperula</i> (Dcne.) Woods. | <i>Asclepias capricornu</i> subsp. <i>occidentalis</i> Woodson                   |
| ASEN        | <i>Asclepias engelmanniana</i> Woods.                                      | <i>Asclepias engelmanniana</i> Woods.                         |                                                                                  |
| ASIN14      | <i>Asclepias involucrata</i> Engelm. ex Torr.                              | <i>Asclepias involucrata</i> Engelm. ex Torr.                 | None found                                                                       |
| ASMA        | <i>Asclepias macrotis</i> Torr.                                            | <i>Asclepias macrotis</i> Torr.                               | None found                                                                       |
| ASSP        | <i>Asclepias speciosa</i> Torr.                                            | <i>Asclepias speciosa</i> Torr.                               | None found                                                                       |
| ASSU2       | <i>Asclepias subverticillata</i> (Gray) Vail                               | <i>Asclepias subverticillata</i> (Gray) Vail                  | None found                                                                       |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i> Woods.                      | <i>Asclepias tuberosa</i> ssp. <i>terminalis</i> Woods.       | None found                                                                       |
| ASVI        | <i>Asclepias viridiflora</i> Raf.                                          | <i>Asclepias viridiflora</i> Raf.                             |                                                                                  |
| ASOF        | <i>Asparagus officinalis</i> L.                                            | <i>Asparagus officinalis</i> L.                               | None found                                                                       |
| ASTR2       | <i>Asplenium trichomanes</i> L.                                            | <i>Asplenium trichomanes</i> L.                               | None found                                                                       |
| ASAS5       | <i>Aster ascendens</i> Lindl.                                              | <i>Aster adscendens</i>                                       |                                                                                  |
| ASCOP       | <i>Aster falcatus</i> var. <i>commutatus</i> Torr. & Gray                  | <i>Aster commutatus</i>                                       |                                                                                  |
| ASER3       | <i>Aster ericoides</i> L.                                                  | <i>Aster ericoides</i> L.                                     | <i>Aster hebeciadus</i> DC.; <i>A. multiflorus</i> Ait.                          |
| ASFE        | <i>Aster fendleri</i> Gray                                                 | <i>Aster fendleri</i> Gray                                    | None found                                                                       |
| ASFO        | <i>Aster foliaceus</i> Lindl. ex DC.                                       | <i>Aster foliaceus</i> Lindl. ex DC.                          |                                                                                  |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i> Blake                         | <i>Aster glaucodes</i> var. <i>glaucodes</i> Blake            | <i>Eucephalus glaucus</i> Nutt.; <i>Aster glaucus</i> (Nutt.) Torr. & Gray       |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i> (Gray) Semple & Chmielewski | <i>Aster hesperius</i> Gray                                   | <i>Aster caeruleus</i> D C.                                                      |
| ASLA5       | <i>Aster laevis</i> L.                                                     | <i>Aster laevis</i> L.                                        | None found                                                                       |
| ASNO        | <i>Aster novae-angliae</i> L.                                              | <i>Aster novae-angliae</i> L.                                 | None found                                                                       |
| ASOC        | <i>Aster occidentalis</i> (Nutt.) Torr. & Gray                             | <i>Aster occidentalis</i> (Nutt.) Torr. & Gray                | <i>Aster fremontii</i> (Torr. & Gray) Gray; <i>A. corymbiformis</i> Rydb.        |
| ALPA14      | <i>Almutaster pauciflorus</i> (Nutt.) A. & D. Love                         | <i>Aster pauciflorus</i> Nutt.                                | <i>A. hydrophilus</i> Greene; <i>A. pauciflorus</i> var. <i>gracillimus</i> Gray |
| ASPR2       | <i>Aster praealtus</i> Poir.                                               | <i>Aster praealtus</i> Poir.                                  | <i>Aster salicifolius</i>                                                        |
| ASAG2       | <i>Astragalus agrestis</i> Dougl. ex G. Don                                | <i>Astragalus agrestis</i> Dougl. ex G. Don                   | <i>Astragalus goniatus</i> Nutt.                                                 |
| ASAM5       | <i>Astragalus amphioxys</i> Gray                                           | <i>Astragalus amphioxys</i> Gray                              | See Foxx & Tierney (1985)                                                        |
| ASBI2       | <i>Astragalus bisulcatus</i> (Hook.) Gray                                  | <i>Astragalus bisulcatus</i> (Hook.) Gray                     |                                                                                  |
| ASCR2       | <i>Astragalus crassicaupus</i> Nutt.                                       | <i>Astragalus crassicaupus</i> Nutt.                          | <i>Astragalus carnosus</i> Rydb.; <i>Geoprumnon crassicaupus</i> (Nutt.) Rydb.   |
| ASEM2       | <i>Astragalus emoryanus</i> (Rydb.) Cory                                   | <i>Astragalus emoryanus</i> (Rydb.) Cory                      | <i>Hamosa emoryana</i> Rydb.                                                     |
| ASFL2       | <i>Astragalus flexuosus</i> (Hook.) Dougl. ex G. Don                       | <i>Astragalus flexuosus</i> (Hook.) Dougl. ex G. Don          |                                                                                  |
| ASGR3       | <i>Astragalus gracilis</i> Nutt.                                           | <i>Astragalus gracilis</i> Nutt.                              | See Foxx & Tierney (1985)                                                        |
| ASHU2       | <i>Astragalus humistratus</i> Gray                                         | <i>Astragalus humistratus</i> Gray                            | See Foxx & Tierney (1985)                                                        |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                              | Martin and Hutchins (1980)                                               | Synonyms as Found in References                                                                              |
|-------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i> (Barnaby) Barnaby      | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i> (Barnaby) Barnaby | <i>Astragalus tagetarius</i> var. <i>neomexicanus</i> Barnaby                                                |
| ASLE8       | <i>Astragalus lentiginosus</i> Dougl. ex Hook.                                | <i>Astragalus lentiginosus</i> Dougl. ex Hook.                           | None found                                                                                                   |
| ASLO3       | <i>Astragalus lonchocarpus</i> Torr.                                          | <i>Astragalus lonchocarpus</i> Torr.                                     |                                                                                                              |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> Nutt.               | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> Nutt.          | See Foxx & Tierney (1985)                                                                                    |
| ASMO7       | <i>Astragalus mollissimus</i> Torr.                                           | <i>Astragalus mollissimus</i> Torr.                                      | <i>Phaca villosa</i> James ex. Wats.; <i>Astragalus simulans</i> Cockl.                                      |
| ASPR5       | <i>Astragalus praelongus</i> Sheldon                                          | <i>Astragalus praelongus</i> Sheldon                                     | <i>Phacopsis praelongus</i> Rydb.; <i>Jonesiella recedens</i> Greene; <i>Astragalus r.</i> (Greene)          |
| ASSH3       | <i>Astragalus shortianus</i> Nutt.                                            | <i>Astragalus shortianus</i> Nutt.                                       | See Foxx & Tierney (1985)                                                                                    |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i> (Rupr.) C. Christens.     | <i>Athyrium filix-femina</i> var. <i>californicum</i> Butters            | None found                                                                                                   |
| ATCA2       | <i>Atriplex canescens</i> (Pursh) Nutt.                                       | <i>Atriplex canescens</i> (Pursh) Nutt.                                  | None found                                                                                                   |
| ATPA4       | <i>Atriplex patula</i> L.                                                     | <i>Atriplex patula</i> L.                                                | None found                                                                                                   |
| BABI        | <i>Baccharis bigelovii</i> Gray                                               | <i>Baccharis bigelovii</i> Gray                                          |                                                                                                              |
| BABI3       | <i>Bahia biternata</i> Gray                                                   | <i>Bahia biternata</i> Gray                                              | <i>Schkuhria biternata</i> Gray; <i>Villanova biternata</i> (Gray) Woot. & Standl.                           |
| BADI        | <i>Bahia dissecta</i> (Gray) Britt.                                           | <i>Bahia dissecta</i> (Gray) Britt.                                      | <i>Amauria dissecta</i> Gray; <i>Amauriopsis dissecta</i> (Gr.) Rydb.; <i>Villanova dissecta</i> (Gr.) Rydb. |
| SCMU6       | <i>Schkuhria multiflora</i> Hook. & Arn.                                      | <i>Bahia neomexicana</i> (Gray) Gray                                     | See Foxx & Tierney (1985)                                                                                    |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> (Gray) W. Ellison | <i>Bahia oblongifolia</i> (Gray) Gray                                    | See Foxx & Tierney (1985)                                                                                    |
| BAMU        | <i>Baileya multiradiata</i> Harvey & Gray ex Gray                             | <i>Baileya multiradiata</i> Harvey & Gray ex Gray                        | <i>Baileya multiradiata</i> v. <i>nudicaulis</i> Gray; <i>B. pleniradiata</i> v. <i>multiradiata</i> Kearney |
| BAOR        | <i>Barbarea orthoceras</i> Ledeb.                                             | <i>Barbarea orthoceras</i> Ledeb.                                        |                                                                                                              |
| BAHY        | <i>Bassia hyssopifolia</i> (Pallas) Kuntz                                     | <i>Bassia hyssopifolia</i> (Pallas) Kuntz                                | None found                                                                                                   |
| BESY        | <i>Beckmannia syzigachne</i> (Steud.) Fern.                                   | <i>Beckmannia syzigachne</i> (Steud.) Fern.                              | None found                                                                                                   |
| BEFE        | <i>Berberis fendleri</i> Gray                                                 | <i>Berberis fendleri</i> Gray                                            | <i>Mahonia fendleri</i> (Gray) Woot. & Standl.                                                               |
| MARE11      | <i>Mahonia repens</i> (Lindl.) G. Don                                         | <i>Berberis repens</i> Lindl.                                            | None found                                                                                                   |
| BELY        | <i>Berlandiera lyrata</i> Benth.                                              | <i>Berlandiera lyrata</i> Benth.                                         | <i>Berlandiera incisa</i> Torr. & Gray                                                                       |
| BEIN2       | <i>Berteroia incana</i> L.                                                    | <i>Berteroia incana</i> L.                                               |                                                                                                              |
| BEER        | <i>Berula erecta</i> (Huds.) Coville                                          | <i>Berula erecta</i> (Huds.) Coville                                     | <i>Sium erectum</i> Huds.                                                                                    |
| BEPL        | <i>Besseyia plantaginea</i> (James) Rydb.                                     | <i>Besseyia plantaginea</i> (James) Rydb.                                | <i>Synthyris plantaginea</i> (James) Benth.                                                                  |
| BEOC2       | <i>Betula occidentalis</i> Hook.                                              | <i>Betula occidentalis</i> Hook.                                         | <i>Betula fontinalis</i> Sarg.                                                                               |
| BIBI        | <i>Bidens bigelovii</i> Gray                                                  | <i>Bidens bigelovii</i> Gray                                             | None found                                                                                                   |
| BIBI7       | <i>Bidens bipinnata</i> L.                                                    | <i>Bidens bipinnata</i> L.                                               | None found                                                                                                   |
| BICE        | <i>Bidens cernua</i> L.                                                       | <i>Bidens cernua</i> L.                                                  | <i>Bidens prionophylla</i> Greene; <i>B. glaucescens</i> Greene                                              |
| BILA        | <i>Bidens laevis</i> L.                                                       | <i>Bidens laevis</i> L.                                                  |                                                                                                              |
| BITR        | <i>Bidens tripartita</i> L.                                                   | <i>Bidens comosa</i> (Gray) Wieg.                                        |                                                                                                              |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                          | Synonyms as Found in References                                                |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------|
| BIFR        | <i>Bidens frondosa</i> L.                                     | <i>Bidens frondosa</i> L.                                           |                                                                                |
| BLTR        | <i>Blepharoneuron tricholepis</i> (Torr.) Nash                | <i>Blepharoneuron tricholepis</i> (Torr.) Nash                      | None found                                                                     |
| BOCO2       | <i>Boerhavia coulteri</i> (Hook. f.) S. Wats.                 | <i>Boerhavia coulteri</i> (Hook. f.) S. Wats.                       | None found                                                                     |
| BOMU        | <i>Botrychium multifidum</i> (Gmel.) Trev.                    | <i>Botrychium multifidum</i> var. <i>coulteri</i> (Underwood) Broun |                                                                                |
| BOAR        | <i>Bouteloua aristidoides</i> (Kunth) Griseb.                 | <i>Bouteloua aristidoides</i> (Kunth) Griseb.                       | None found                                                                     |
| BOBA2       | <i>Bouteloua barbata</i> Lag.                                 | <i>Bouteloua barbata</i> Lag.                                       |                                                                                |
| BOCU        | <i>Bouteloua curtipendula</i> (Michx.) Torr.                  | <i>Bouteloua curtipendula</i> (Michx.) Torr.                        | <i>Atherpogon curtipendulus</i> Fourn.                                         |
| BOER4       | <i>Bouteloua eriopoda</i> (Torr.) Torr.                       | <i>Bouteloua eriopoda</i> (Torr.) Torr.                             | <i>Chondrosium eriopodum</i> Torr.                                             |
| BOGR2       | <i>Bouteloua gracilis</i> (Willd. ex Kunth) Lag. ex Griffiths | <i>Bouteloua gracilis</i> (Willd. ex Kunth) Lag. ex Griffiths       | <i>Chondrosium gracile</i> H. B. K.; <i>Bouteloua oligostachya</i> Torr.       |
| BOHI2       | <i>Bouteloua hirsuta</i> Lag.                                 | <i>Bouteloua hirsuta</i> Lag.                                       | None found                                                                     |
| BOSI2       | <i>Bouteloua simplex</i> Lag.                                 | <i>Bouteloua simplex</i> Lag.                                       | <i>Bouteloua procumbens</i> Griffiths                                          |
| BRJU        | <i>Brassica juncea</i> (L.) Czern.                            | <i>Brassica juncea</i> (L.) Czern.                                  | <i>Sinapsis juncea</i> L.                                                      |
| BRNI        | <i>Brassica nigra</i> (L.) W.D.J. Koch                        | <i>Brassica nigra</i> (L.) W.D.J. Koch                              | None found                                                                     |
| BRBE        | <i>Brickellia betonicifolia</i> Gray                          | <i>Brickellia betonicifolia</i> Gray                                | <i>Coesanthus baccarideus</i> (Gray) ; <i>C. betonicaefolius</i> (Gray) Kuntze |
| BRBR2       | <i>Brickellia brachyphylla</i> (Gray) Gray                    | <i>Brickellia brachyphylla</i> (Gray) Gray                          | <i>Coleosanthus brachyphyllus</i> (Gray) Kuntze                                |
| BRCA3       | <i>Brickellia californica</i> (Torr. & Gray) Gray             | <i>Brickellia californica</i> (Torr. & Gray) Gray                   | See Foxx & Tierney (1985)                                                      |
| BRFE        | <i>Brickellia fendleri</i> Gray                               | <i>Brickellia fendleri</i> Gray                                     |                                                                                |
| BRGR        | <i>Brickellia grandiflora</i> (Hook.) Nutt.                   | <i>Brickellia grandiflora</i> (Hook.) Nutt.                         | <i>Coleosanthus umbellatus</i> Greene; <i>C. grandiflorus</i> (Hook.) Kuntze   |
| BRAN        | <i>Bromus anomalus</i> Rupr. ex Fourn.                        | <i>Bromus anomalus</i> Rupr. ex Fourn.                              | <i>Bromus porteri</i> (Coult.) Nash; <i>B. lanatipes</i> Rydb.                 |
| BRCA6       | <i>Bromus catharticus</i> Vahl                                | <i>Bromus catharticus</i> Vahl                                      | <i>Bromus unioloides</i> (Willd.) H. B. K.                                     |
| BRCI2       | <i>Bromus ciliatus</i> L.                                     | <i>Bromus ciliatus</i> L.                                           | <i>Bromus richardsonii</i> Link                                                |
| BRFR2       | <i>Bromus frondosus</i> (Shear) Woot. & Standl.               | <i>Bromus frondosus</i> (Shear) Woot. & Standl.                     | <i>Bromus porteri</i> var. <i>frondosus</i> Shear                              |
| BRIN2       | <i>Bromus inermis</i> Leyss.                                  | <i>Bromus inermis</i> Leyss.                                        | None found                                                                     |
| BRJA        | <i>Bromus japonicus</i> Thunb. ex Murr.                       | <i>Bromus japonicus</i> Thunb. ex Murr.                             | None found                                                                     |
| BRLA6       | <i>Bromus lanatipes</i> (Shear) Rydb.                         | <i>Bromus lanatipes</i> (Shear) Rydb.                               | <i>Bromus anomalus</i> var. <i>lanatipes</i> (Shear) Hitchc.                   |
| BRMA4       | <i>Bromus marginatus</i> Nees ex Steud.                       | <i>Bromus marginatus</i> Nees ex Steud.                             | <i>Bromus carinatus</i> Hook. & Arn.                                           |
| BRKA2       | <i>Bromus kalmii</i> Gray                                     | <i>Bromus purgans</i> L.                                            | None found                                                                     |
| BRTE        | <i>Bromus tectorum</i> L.                                     | <i>Bromus tectorum</i> L.                                           | None found                                                                     |
| BUDA        | <i>Buchloe dactyloides</i> (Nutt.) Engelm.                    | <i>Buchloe dactyloides</i> (Nutt.) Engelm.                          | <i>Bulbilis dactyloides</i> (Nutt.) Raf.                                       |
| CAGU        | <i>Calochortus gunnisonii</i> S. Wats.                        | <i>Calochortus gunnisonii</i> S. Wats.                              | <i>Calochortus</i> var. <i>perpulcher</i> Cockll.                              |
| CANU3       | <i>Calochortus nuttallii</i> Torr. & Gray                     | <i>Calochortus nuttallii</i> Torr. & Gray                           | None found                                                                     |
| CAHA14      | <i>Calylophus hartwegii</i> (Benth.) Raven                    | <i>Calylophus hartwegii</i> (Benth.) Raven                          | <i>Oenothera hartwegii</i> Benth; <i>Galpinsia hartwegii</i> (Benth.) Britt.   |
| CABU        | <i>Calypso bulbosa</i> (L.) Oakes                             | <i>Calypso bulbosa</i> (L.) Oakes                                   | <i>Cythrea bulbosa</i> (L.) House                                              |
| CAMI2       | <i>Camelina microcarpa</i> DC.                                | <i>Camelina microcarpa</i> DC.                                      | None found                                                                     |
| CAPA10      | <i>Campanula parryi</i> Gray                                  | <i>Campanula parryi</i> Gray                                        | None found                                                                     |



## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                 | Martin and Hutchins (1980)                 | Synonyms as Found in References                                                           |
|-------------|------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|
| CARO2       | <i>Campanula rotundifolia</i> L.                                 | <i>Campanula rotundifolia</i> L.           | <i>Campanula petiolata</i> A. DC.                                                         |
| CABU2       | <i>Capsella bursa-pastoris</i> (L.) Medik.                       | <i>Capsella bursa-pastoris</i> (L.) Medik. | <i>Capsella rubella</i> Erepn                                                             |
| CACO6       | <i>Cardamine cordifolia</i> Gray                                 | <i>Cardamine cordifolia</i> Gray           | <i>Cardamine lyallii</i> (Wats.) A. Nels. & J. F. Macbr.                                  |
| CADR        | <i>Cardaria draba</i> (L.) Desv.                                 | <i>Cardaria draba</i> (L.) Desv.           |                                                                                           |
| CANU4       | <i>Carduus nutans</i> L.                                         | <i>Carduus nutans</i> L.                   |                                                                                           |
| CAAQ        | <i>Carex aquatilis</i> Wahlenb.                                  | <i>Carex aquatilis</i> Wahlenb.            | None found                                                                                |
| CABE3       | <i>Carex bella</i> Bailey                                        | <i>Carex bella</i> Bailey                  | None found                                                                                |
| CABO2       | <i>Carex bolanderi</i> Olney                                     | <i>Carex bolanderi</i> Olney               |                                                                                           |
| CABR10      | <i>Carex brevior</i> (Dewey) Mackenzie                           | <i>Carex brevior</i> (Dewey) Mackenzie     |                                                                                           |
| CACA11      | <i>Carex canescens</i> L.                                        | <i>Carex canescens</i> L.                  | None found                                                                                |
| CADO2       | <i>Carex douglasii</i> Boott                                     | <i>Carex douglasii</i> Boott               |                                                                                           |
| CADU6       | <i>Carex duriuscula</i> C.A. Mey.                                | <i>Carex eleocharis</i> Bailey             | <i>Carex stenophylla</i> var. <i>elocharis</i> (Bailey) Bretung                           |
| CAMI7       | <i>Carex microptera</i> Mackenzie                                | <i>Carex festivella</i> Mackenzie          | None found                                                                                |
| CAFO3       | <i>Carex foenea</i> Willd.                                       | <i>Carex foenea</i> Willd.                 | <i>Carex siccata</i> Dewey                                                                |
| CAGE        | <i>Carex geophila</i> Mackenzie                                  | <i>Carex geophila</i> Mackenzie            | None found                                                                                |
| CAHY4       | <i>Carex hystericina</i> Muhl. ex Willd.                         | <i>Carex hystericina</i> Muhl. ex Willd.   |                                                                                           |
| CAIN11      | <i>Carex interior</i> Bailey                                     | <i>Carex interior</i> Bailey               | None found                                                                                |
| CALA30      | <i>Carex lanuginosa</i> Michx.                                   | <i>Carex lanuginosa</i> Michx.             |                                                                                           |
| CANE2       | <i>Carex nebraskensis</i> Dewey                                  | <i>Carex nebraskensis</i> Dewey            | None found                                                                                |
| CAOC2       | <i>Carex occidentalis</i> Bailey                                 | <i>Carex occidentalis</i> Bailey           |                                                                                           |
| CAPR5       | <i>Carex praegracilis</i> W. Boott                               | <i>Carex praegracilis</i> W. Boott         | None foun                                                                                 |
| CASC11      | <i>Carex scoparia</i> Schkuhr ex Willd.                          | <i>Carex scoparia</i> Schkuhr ex Willd.    | None found                                                                                |
| CAST5       | <i>Carex stipata</i> Muhl. ex Willd.                             | <i>Carex stipata</i> Muhl. ex Willd.       | None found                                                                                |
| CAXE        | <i>Carex xerantica</i> Bailey                                    | <i>Carex xerantica</i> Bailey              | None found                                                                                |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i> Dougl. ex Hook.    | <i>Castilleja confusa</i> Greene           | <i>Castilleja inconstans</i> Standl.                                                      |
| CAIN14      | <i>Castilleja integra</i> Gray                                   | <i>Castilleja integra</i> Gray             | <i>Castilleja gloriosa</i> Britt.; <i>C. tomentosa</i> Gray                               |
| CALI4       | <i>Castilleja linariifolia</i> Benth.                            | <i>Castilleja linariifolia</i> Benth.      | None found                                                                                |
| CALI5       | <i>Castilleja lineata</i> Greene                                 | <i>Castilleja lineata</i> Greene           | None found                                                                                |
| CAMI12      | <i>Castilleja miniata</i> Dougl. ex Hook.                        | <i>Castilleja miniata</i> Dougl. ex Hook.  | <i>Castilleja crista-galli</i> Rydb.                                                      |
| CAMI13      | <i>Castilleja minor</i> (Gray) Gray                              | <i>Castilleja minor</i> (Gray) Gray        | <i>Castilleja exilis</i> A. Nels.; <i>C. stricta</i> Rydb.                                |
| CARH4       | <i>Castilleja rhexiifolia</i> Rydb.                              | <i>Castilleja rhexiifolia</i> Rydb.        | <i>Castilleja trinervis</i> Rydb.; <i>C. obtusiloba</i> Rydb.; <i>C. lancefolia</i> Rydb. |
| CEFE        | <i>Ceanothus fendleri</i> Gray                                   | <i>Ceanothus fendleri</i> Gray             | None found                                                                                |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i> (Torr.) L. Benson | <i>Celtis reticulata</i> Torr.             | <i>Celtis laevigata</i> var. <i>reticulata</i> L. Benson                                  |
| CEEC        | <i>Cenchrus echinatus</i> L.                                     | <i>Cenchrus echinatus</i> L.               | None found                                                                                |
| CEIN4       | <i>Cenchrus incertus</i> M.A. Curtis                             | <i>Cenchrus pauciflorus</i> Benth.         | None found                                                                                |
| CECA3       | <i>Centaurium calycosum</i> (Buckl.) Fern.                       | <i>Centaurium calycosum</i> (Buckl.) Fern. | <i>Erythea calycosa</i> Buckl.                                                            |
| CEAR4       | <i>Cerastium arvense</i> L.                                      | <i>Cerastium arvense</i> L.                |                                                                                           |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                             | Martin and Hutchins (1980)                                                    | Synonyms as Found in References                                                                          |
|-------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| CEBR3       | <i>Cerastium brachypodum</i> (Engelm. ex Gray) B.L. Robins.                  | <i>Cerastium brachypodum</i> (Engelm. ex Gray) B.L. Robins.                   | None found                                                                                               |
| CEGL2       | <i>Cerastium glomeratum</i> Thuill.                                          | <i>Cerastium glomeratum</i> Thuill.                                           |                                                                                                          |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i> (Hartman) Greuter & Burdet     | <i>Cerastium vulgatum</i> L. 1762, non 1755                                   |                                                                                                          |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i> Raf.                        | <i>Cercocarpus montanus</i> var. <i>montanus</i> Raf.                         | None found                                                                                               |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> (S. Wats.) F.L. Martin | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> (S. Wats.) F.L. Martin  | <i>C. breviflorus</i> Gray; <i>C. paucidentatus</i> (Wats.) Britt.                                       |
| CHCO        | <i>Chamaesaracha coniodes</i> (Moric. ex Dunal) Britt.                       | <i>Chamaesaracha coniodes</i> (Moric. ex Dunal) Britt.                        | <i>Solanum conioides</i> Moric; <i>Chamaesaracha sorida</i> (Dunal) Gray                                 |
| CHCO2       | <i>Chamaesaracha coronopus</i> (Dunal) Gray                                  | <i>Chamaesaracha coronopus</i> (Dunal) Gray                                   | <i>Solanum coronopus</i> Dunal                                                                           |
| CHFE        | <i>Cheilanthes feei</i> T. Moore                                             | <i>Cheilanthes feei</i> T. Moore                                              |                                                                                                          |
| CHFE2       | <i>Cheilanthes fendleri</i> Hook.                                            | <i>Cheilanthes fendleri</i> Hook.                                             | None found                                                                                               |
| CHTO2       | <i>Cheilanthes tomentosa</i> Link                                            | <i>Cheilanthes tomentosa</i> Link                                             |                                                                                                          |
| CHEA        | <i>Cheilanthes eatonii</i> Baker                                             | <i>Cheilanthes eatonii</i> Baker                                              | None found                                                                                               |
| CHAL6       | <i>Chenopodium albescens</i> Small                                           | <i>Chenopodium albescens</i> Small                                            | <i>Chenopodium berlandieri</i> subsp. <i>zschackei</i> var. <i>glaucoviride</i> Aellen                   |
| CHAL7       | <i>Chenopodium album</i> L.                                                  | <i>Chenopodium album</i> L.                                                   | None found                                                                                               |
| CHBE4       | <i>Chenopodium berlandieri</i> Moq.                                          | <i>Chenopodium berlandieri</i> Moq.                                           | None found                                                                                               |
| CHCA4       | <i>Chenopodium capitatum</i> (L.) Ambrosi                                    | <i>Chenopodium capitatum</i> (L.) Ambrosi                                     | <i>Blitum capitatum</i> L.                                                                               |
| CHCY        | <i>Chenopodium cycloides</i> A. Nels.                                        | <i>Chenopodium cycloides</i> A. Nels.                                         | None found                                                                                               |
| CHDE        | <i>Chenopodium desiccatum</i> A. Nels.                                       | <i>Chenopodium desiccatum</i> A. Nels.                                        | <i>Chenopodium pratericola</i> Rydb. subsp. <i>desiccatum</i>                                            |
| CHPR5       | <i>Chenopodium pratericola</i> Rydb.                                         | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i> (J. Murr) H.A. Wahl | <i>Chenopodium pratericola</i> var. <i>leptophylloides</i> Aellen                                        |
| CHFR3       | <i>Chenopodium fremontii</i> S. Wats.                                        | <i>Chenopodium fremontii</i> S. Wats.                                         | None found                                                                                               |
| CHSI2       | <i>Chenopodium simplex</i> (Torr.) Raf.                                      | <i>Chenopodium gigantospermum</i> Aellen                                      | <i>Chenopodium hybridum</i> var. <i>gigantospermum</i> (Aellen) Rouleau                                  |
| CHGL3       | <i>Chenopodium glaucum</i> L.                                                | <i>Chenopodium glaucum</i> L.                                                 | None found                                                                                               |
| CHGR2       | <i>Chenopodium graveolens</i> Willd.                                         | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i> (Aellen) Aellen        | <i>Chenopodium incisum</i> Poir; <i>C. cornutum</i> (Torr.) Benth; <i>C. incisum</i> var. <i>neomex.</i> |
| CHIN2       | <i>Chenopodium incanum</i> (S. Wats.) Heller                                 | <i>Chenopodium incanum</i> (S. Wats.) Heller                                  | <i>Chenopodium fremontii</i> var. <i>incanum</i> Wats.                                                   |
| CHLE4       | <i>Chenopodium leptophyllum</i> (Moq.) Nutt. ex S. Wats.                     | <i>Chenopodium leptophyllum</i> (Moq.) Nutt. ex S. Wats.                      | <i>Chenopodium album</i> var. <i>leptophyllum</i> Moq.; <i>C. oblongifolium</i> Rydb.                    |
| CHRU        | <i>Chenopodium rubrum</i> L.                                                 | <i>Chenopodium rubrum</i> L.                                                  |                                                                                                          |
| CHWA        | <i>Chenopodium watsonii</i> A. Nels.                                         | <i>Chenopodium watsonii</i> A. Nels.                                          | None found                                                                                               |
| CHUM        | <i>Chimaphila umbellata</i> (L.) W. Bart.                                    | <i>Chimaphila umbellata</i> (L.) W. Bart.                                     | <i>Chimaphila acuta</i> Rydb.                                                                            |
| CHVI4       | <i>Chloris virgata</i> Sw.                                                   | <i>Chloris virgata</i> Sw.                                                    | <i>Chloris elegans</i> H. B. K.                                                                          |
| LEVU        | <i>Leucanthemum vulgare</i> Lam.                                             | <i>Chrysanthemum leucanthemum</i> L.                                          |                                                                                                          |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i> (Pursh) Shinnars              | <i>Chrysopsis villosa</i> (Pursh) Nutt. ex DC.                                | <i>Amellus villosus</i> Pursh; <i>C. hispida</i> (Hook.) DC.                                             |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                                     | Martin and Hutchins (1980)                                                                           | Synonyms as Found in References                                                                             |
|-------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                                | <i>Chrysothamnus nauseosus</i> ssp. <i>bigelovii</i> (Gray) Hall & Clements                          | <i>Linosyris bigelovii</i> Gray; <i>Chrysothamnus bigelovii</i> (Gray) Greene                               |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                              | <i>Chrysothamnus nauseosus</i> ssp. <i>latisquameus</i> (Gray) Hall & Clements                       | See Foxx & Tierney (1985)                                                                                   |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i> (M.E. Jones) Nesom & Baird                            | <i>Chrysothamnus parryi</i> ssp. <i>attenuatus</i> (M.E. Jones) Hall & Clements                      |                                                                                                             |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i> (Parry ex Gray) Nesom & Baird                          | <i>Chrysothamnus parryi</i> ssp. <i>howardii</i> (Parry ex Gray) Hall & Clements                     |                                                                                                             |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> (Hook.) Nutt. | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> (Hook.) Nutt. | <i>Chrysothamnus glaucus</i> A. Nels.; <i>C. serrulatus</i> Rydb.                                           |
| CIDO        | <i>Cicuta douglasii</i> (DC.) Coult. & Rose                                                          | <i>Cicuta douglasii</i> (DC.) Coult. & Rose                                                          | <i>Cicuta occidentalis</i> Greene                                                                           |
| CIAL        | <i>Circaea alpina</i> L.                                                                             | <i>Circaea alpina</i> L.                                                                             | None found                                                                                                  |
| CINE        | <i>Cirsium neomexicanum</i> Gray                                                                     | <i>Cirsium neomexicanum</i> Gray                                                                     | <i>Carduus neomexicanum</i> (Gray) Greene; <i>Cnicus neomexicanus</i> Gray                                  |
| CIOC2       | <i>Cirsium ochrocentrum</i> Gray                                                                     | <i>Cirsium ochrocentrum</i> Gray                                                                     | <i>Cnicus ochocentrus</i> Gray; <i>Carduus ochocentrus</i> (Gray) Greene                                    |
| CIPA5       | <i>Cirsium pallidum</i> Woot. & Standl.                                                              | <i>Cirsium pallidum</i> Woot. & Standl.                                                              | <i>Carduus pallidus</i> Woot. & Standl.                                                                     |
| CIPA        | <i>Cirsium parryi</i> (Gray) Petrak                                                                  | <i>Cirsium parryi</i> (Gray) Petrak                                                                  | <i>Cnicus parryi</i> Gray; <i>Carduus parryi</i> (Gray) Greene                                              |
| CICA10      | <i>Cirsium calcareum</i> (M.E. Jones) Woot. & Standl.                                                | <i>Cirsium pulchellum</i> (Greene) Woot. & Standl.                                                   | <i>Carduus pulchellus</i> Greene                                                                            |
| CIUN        | <i>Cirsium undulatum</i> (Nutt.) Spreng.                                                             | <i>Cirsium undulatum</i> (Nutt.) Spreng.                                                             | <i>Carduus undulatus</i> Nutt.; <i>Cnicus undulatus</i> (Nutt.) Gray; <i>Cirsium perennans</i> (Greene) W&S |
| CIVU        | <i>Cirsium vulgare</i> (Savi) Ten.                                                                   | <i>Cirsium vulgare</i> (Savi) Ten.                                                                   |                                                                                                             |
| CLDR        | <i>Clematis drummondii</i> Torr. & Gray                                                              | <i>Clematis drummondii</i> Torr. & Gray                                                              | None found                                                                                                  |
| CLLI2       | <i>Clematis ligusticifolia</i> Nutt.                                                                 | <i>Clematis ligusticifolia</i> Nutt.                                                                 | None found                                                                                                  |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i> (Nutt.) Torr. & Gray                               | <i>Clematis pseudoalpina</i> (Kuntze) A. Nels.                                                       | <i>Atragene pseudoalpina</i> (Kuntze) Rydb.                                                                 |
| CLSE        | <i>Cleome serrulata</i> Pursh                                                                        | <i>Cleome serrulata</i> Pursh                                                                        | <i>Peritoma serrulatum</i> (Pursh) DC.; <i>Cleome integrifolium</i> Torr. & Gray                            |
| CLVU        | <i>Clinopodium vulgare</i> L.                                                                        | <i>Clinopodium vulgare</i> L.                                                                        | None found                                                                                                  |
| COLI2       | <i>Collomia linearis</i> Nutt.                                                                       | <i>Collomia linearis</i> Nutt.                                                                       | <i>Gilia linearis</i> (Nutt.) Gray; <i>Navarretia linearis</i> (Nutt.) Kuntze                               |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i> (A. DC.) Piehl                                         | <i>Comandra pallida</i> A. DC.                                                                       | None found                                                                                                  |
| CODI4       | <i>Commelina dianthifolia</i> Delile                                                                 | <i>Commelina dianthifolia</i> Delile                                                                 | None found                                                                                                  |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i> (Gray ex S. Wats.) Haynes                              | <i>Conopholis mexicana</i> Gray ex S. Wats.                                                          |                                                                                                             |
| COAR4       | <i>Convolvulus arvensis</i> L.                                                                       | <i>Convolvulus arvensis</i> L.                                                                       | None found                                                                                                  |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i> (L.) R. Br.                                              | <i>Convolvulus sepium</i> L.                                                                         | None found                                                                                                  |
| COCA5       | <i>Conyza canadensis</i> (L.) Cronq.                                                                 | <i>Conyza canadensis</i> (L.) Cronq.                                                                 | <i>Erigeron candensis</i> L.; <i>Leptilon candensie</i> (L.) Britt. & Brown                                 |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                               | Martin and Hutchins (1980)                                            | Synonyms as Found in References                                                                    |
|-------------|----------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| LACO13      | <i>Laennecia coulteri</i> Gray                                 | <i>Conyza coulteri</i>                                                |                                                                                                    |
| COMA4       | <i>Corallorrhiza maculata</i> (Raf.) Raf.                      | <i>Corallorrhiza maculata</i> (Raf.) Raf.                             | <i>C. multiflora</i> Nutt.                                                                         |
| COST        | <i>Corallorrhiza striata</i> Lindl.                            | <i>Corallorrhiza striata</i> Lindl.                                   | <i>Corallorrhiza vreelandii</i> Rydb.; <i>C. striata</i> var. <i>vreelandii</i> (Rydb.) L. O. Wms. |
| COWR2       | <i>Cordylanthus wrightii</i> Gray                              | <i>Cordylanthus wrightii</i> Gray                                     | <i>Adenostegia wrightii</i> (Gray) Greene                                                          |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i> Nutt.         | <i>Coreopsis cardaminefolia</i> (DC.) Torr. & Gray                    | <i>Calliopsis cardaminefolia</i> DC.                                                               |
| COTI3       | <i>Coreopsis tinctoria</i> Nutt.                               | <i>Coreopsis tinctoria</i> Nutt.                                      | None found                                                                                         |
| COSA        | <i>Coriandrum sativum</i> L.                                   | <i>Coriandrum sativum</i> L.                                          | None found                                                                                         |
| COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i> L.                   | <i>Cornus stolonifera</i> Michx.                                      | <i>Cornus instoloneus</i> A. nels.; <i>C. sericea</i> L. subsp. <i>stolonifera</i> (Michx) Fosberg |
| COAU2       | <i>Corydalis aurea</i> Willd.                                  | <i>Corydalis aurea</i> Willd.                                         | <i>Capnoides aureum</i> (Willd.) Kuntze; <i>C. euchlamydeum</i> Woot. & Standl.                    |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i> (Nutt.) Buxbaum | <i>Coryphantha vivipara</i> (Nutt.) Britt. & Rose                     | <i>Mammillaria vivipara</i> (Nutt.) Haw.                                                           |
| COPA12      | <i>Cosmos parviflorus</i> (Jacq.) Pers.                        | <i>Cosmos parviflorus</i> (Jacq.) Pers.                               | None found                                                                                         |
| CRER        | <i>Crataegus erythropoda</i> Ashe                              | <i>Crataegus erythropoda</i> Ashe                                     | <i>C. cernonis</i> A. Nels.                                                                        |
| CRTE4       | <i>Croton texensis</i> (Klotzsch) Muell.-Arg.                  | <i>Croton texensis</i> (Klotzsch) Muell.-Arg.                         | <i>Croton luteovirens</i> Woot. & Standl.                                                          |
| CRCR3       | <i>Cryptantha crassisepala</i> Torr. & Gray                    | <i>Cryptantha crassisepala</i> Torr. & Gray                           |                                                                                                    |
| CRFE3       | <i>Cryptantha fendleri</i> (Gray) Greene                       | <i>Cryptantha fendleri</i> (Gray) Greene                              | <i>Cryptantha ramulosissima</i> A. Nels.; <i>Krynitzkia fendleri</i> Gray                          |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i> Cronq.           | <i>Cryptantha jamesii</i> (Torr.) Payson                              | None found                                                                                         |
| CRM15       | <i>Cryptantha minima</i> Rydb.                                 | <i>Cryptantha minima</i> Rydb.                                        |                                                                                                    |
| CRAC3       | <i>Cryptogramma acrostichoides</i> R. Br.                      | <i>Cryptogramma crispa</i> ssp. <i>acrostichoides</i> (R. Br.) Hulten | <i>Cryptogramma acrostichoides</i> R. Br.                                                          |
| CUFO        | <i>Cucurbita foetidissima</i> Kunth                            | <i>Cucurbita foetidissima</i> Kunth                                   | <i>Pepo foetidissima</i> (H. B. K.) Britt.; <i>Cucurbita perennia</i> Gray                         |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i> Engelm.         | <i>Cuscuta campestris</i> Yuncker                                     |                                                                                                    |
| CUUM        | <i>Cuscuta umbellata</i> Kunth                                 | <i>Cuscuta umbellata</i> Kunth                                        | None found                                                                                         |
| CYACF       | <i>Cymopterus acaulis</i> var. <i>fendleri</i> Gray            | <i>Cymopterus acaulis</i> var. <i>fendleri</i> Gray                   |                                                                                                    |
| CYBU        | <i>Cymopterus bulbosus</i> A. Nels.                            | <i>Cymopterus bulbosus</i> A. Nels.                                   | <i>Phellopterus utahensis</i> (M. E. Jones) Woot. & Standl.; <i>P. bulbosus</i> (A. Nels.) C. & R. |
| CYDA        | <i>Cynodon dactylon</i> (L.) Pers.                             | <i>Cynodon dactylon</i> (L.) Pers.                                    | None found                                                                                         |
| CYEC        | <i>Cynosurus echinatus</i> L.                                  | <i>Cynosurus echinatus</i> L.                                         |                                                                                                    |
| CYSQ        | <i>Cyperus squarrosus</i> L.                                   | <i>Cyperus aristatus</i> Rottb.                                       |                                                                                                    |
| MISE3       | <i>Mitreola sessilifolia</i> (J.F. Gmel.) G. Don               | <i>Cynoctonum sessilifolium</i> J.F. Gmel.                            | None found                                                                                         |
| CYFE2       | <i>Cyperus fendlerianus</i> Boeckl.                            | <i>Cyperus fendlerianus</i> Boeckl.                                   | None found                                                                                         |
| CYBI6       | <i>Cyperus bipartitus</i> Torr.                                | <i>Cyperus rivularis</i> Kunth                                        |                                                                                                    |
| CYPU10      | <i>Cypripedium pubescens</i> Willd.                            | <i>Cypripedium calceolus</i> var. <i>pubescens</i> (Willd.) Correll   |                                                                                                    |
| CYFR2       | <i>Cystopteris fragilis</i> (L.) Bernh.                        | <i>Cystopteris fragilis</i> (L.) Bernh.                               | <i>Polypodium fragilis</i> L.; <i>Filix fragilis</i> (L.) Gilib.                                   |
| DAGL        | <i>Dactylis glomerata</i> L.                                   | <i>Dactylis glomerata</i> L.                                          | None found                                                                                         |
| DABR        | <i>Dalea brachystachya</i> Gray                                | <i>Dalea brachystachya</i> Gray                                       | None found                                                                                         |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                 | Martin and Hutchins (1980)                                           | Synonyms as Found in References                                                                            |
|-------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| DAFO        | <i>Dalea formosa</i> Torr.                                                       | <i>Dalea formosa</i> Torr.                                           | <i>Parosela formosa</i> (Torr.) Vail                                                                       |
| DALE3       | <i>Dalea leporina</i> (Ait.) Bullock                                             | <i>Dalea leporina</i> (Ait.) Bullock                                 |                                                                                                            |
| DANA        | <i>Dalea nana</i> Torr. ex Gray                                                  | <i>Dalea nana</i> Torr. ex Gray                                      | <i>Parosela nana</i> (Torr.) Heller                                                                        |
| DAPO3       | <i>Dalea polygonoides</i> Gray                                                   | <i>Dalea polygonoides</i> Gray                                       | <i>Parosela polygonoides</i> (Gray) Heller                                                                 |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i> (M.E. Jones) Bameby                   | <i>Dalea terminalis</i> M.E. Jones                                   | <i>Parosela terminalis</i> (M. E. Jones) Heller                                                            |
| DAIN        | <i>Danthonia intermedia</i> Vasey                                                | <i>Danthonia intermedia</i> Vasey                                    | None found                                                                                                 |
| DAPA2       | <i>Danthonia parryi</i> Scribn.                                                  | <i>Danthonia parryi</i> Scribn.                                      | None found                                                                                                 |
| DASP2       | <i>Danthonia spicata</i> (L.) Beauv. ex Roemer & J.A. Schultes                   | <i>Danthonia spicata</i> (L.) Beauv. ex Roemer & J.A. Schultes       | None found                                                                                                 |
| DAWR2       | <i>Datura wrightii</i> Regel                                                     | <i>Datura meteloides</i> DC. ex Dunal                                | None found                                                                                                 |
| DEOC        | <i>Delphinium X occidentale</i> (S. Wats.) S. Wats.                              | <i>Delphinium X occidentale</i> (S. Wats.) S. Wats.                  | None found                                                                                                 |
| DEWO        | <i>Delphinium wootonii</i> Rydb.                                                 | <i>Delphinium virescens</i> ssp. <i>wootonii</i> (Rydb.) Ewan        | <i>Dephinium wootonii</i> Rydb.                                                                            |
| DECE        | <i>Deschampsia cespitosa</i> (L.) Beauv.                                         | <i>Deschampsia caespitosa</i> (L.) P. Beauv.                         | None found                                                                                                 |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i> (Greene) O.E. Schulz                | <i>Descurainia obtusa</i> ssp. <i>obtusa</i> (Greene) O.E. Schulz    | <i>Sophia obtusa</i> Greene                                                                                |
| DEPI        | <i>Descurainia pinnata</i> (Walt.) Britt.                                        | <i>Descurainia pinnata</i> (Walt.) Britt.                            | None found                                                                                                 |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i> (Bernh. ex Fisch. & C.A. Mey.) Dorn | <i>Descurainia richardsonii</i> O.E. Schulz                          | <i>Sopia procera</i> Greene                                                                                |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i> (Engelm.) Kartesz & Gandhi          | <i>Descurainia richardsonii</i> ssp. <i>incisa</i> (Engelm.) Detling |                                                                                                            |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i> (Greene) Kartesz & Gandhi          | <i>Descurainia richardsonii</i> ssp. <i>procera</i> (Greene) Detling |                                                                                                            |
| DESO2       | <i>Descurainia sophia</i> (L.) Webb ex Prantl                                    | <i>Descurainia sophia</i> (L.) Webb ex Prantl                        | None found                                                                                                 |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i> (Rydb.) Kartesz & Gandhi           | <i>Descurainia richardsonii</i> ssp. <i>viscosa</i> (Rydb.) Detling  |                                                                                                            |
| DISP        | <i>Distichlis spicata</i> (L.) Greene                                            | <i>Distichlis spicata</i> (L.) Greene                                | None found                                                                                                 |
| DISP        | <i>Distichlis spicata</i> (L.) Greene                                            | <i>Distichlis stricta</i> (Torr.) Rydb.                              |                                                                                                            |
| DIWI2       | <i>Dimorphocarpa wislizeni</i> (Engelm.) Rollins                                 | <i>Dithyrea wislizeni</i> Engelm.                                    | <i>Dithyrea griffithsii</i> Woot. & Standl.; <i>D. wislizenii</i> var. <i>griffithsii</i> (W. & S.) Payson |
| DOAL        | <i>Dodecatheon alpinum</i> (Gray) Greene                                         | <i>Dodecatheon alpinum</i> (Gray) Greene                             | None found                                                                                                 |
| DOPU        | <i>Dodecatheon pulchellum</i> (Raf.) Merr.                                       | <i>Dodecatheon pulchellum</i> (Raf.) Merr.                           | <i>Dodecatheon radicum</i> Greene                                                                          |
| DRAU        | <i>Draba aurea</i> Vahl ex Hornem.                                               | <i>Draba aurea</i> Vahl ex Hornem.                                   | None found                                                                                                 |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i> Greene                            | <i>Draba helleriana</i> var. <i>helleriana</i> Greene                | None found                                                                                                 |
| DRRE        | <i>Draba rectifruta</i> C.L. Hitchc.                                             | <i>Draba rectifruta</i> C.L. Hitchc.                                 | <i>Draba montana</i> Wats.                                                                                 |
| DRRE2       | <i>Draba reptans</i> (Lam.) Fern.                                                | <i>Draba reptans</i> (Lam.) Fern.                                    |                                                                                                            |
| DRSP        | <i>Draba spectabilis</i> Greene                                                  | <i>Draba spectabilis</i> Greene                                      | None found                                                                                                 |
| DRFI2       | <i>Dryopteris filix-mas</i> (L.) Schott                                          | <i>Dryopteris filix-mas</i> (L.) Schott                              | <i>Polypodium felix-mas</i> L.                                                                             |
| THAC        | <i>Thymophylla acerosa</i> DC.                                                   | <i>Dyssodia acerosa</i>                                              |                                                                                                            |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                        | Martin and Hutchins (1980)                                              | Synonyms as Found in References                                                                     |
|-------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| DYPA        | <i>Dyssodia papposa</i> (Vent.) A.S. Hitchc.                            | <i>Dyssodia papposa</i> (Vent.) A.S. Hitchc.                            | <i>Boebera papposa</i> (Vent.) Rydb.; <i>Tagetes papposa</i> Vent.                                  |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i> (DC.) Strother    | <i>Dyssodia thurberi</i> (Gray) B.L. Robins.                            | <i>Thymophylla thurberi</i> (Gray) Woot.&Standl.; <i>Hymenatherum thurberia</i> Gray                |
| ECFE        | <i>Echinocereus fendleri</i> (Engelm.) F. Seitz                         | <i>Echinocereus fendleri</i> (Engelm.) F. Seitz                         | <i>Cercus fendleri</i> Engelm., <i>C. fendleri</i> var. <i>pauperculus</i>                          |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> Engelm. | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> Engelm. | None found                                                                                          |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i> Engelm.             | <i>Echinocereus coccineus</i> var. <i>coccineus</i> Engelm.             | <i>Echinocereus coccineus</i> Engelm.; <i>E. melanacanthus</i> Engelm.; <i>E. conoideus</i> Engelm. |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i> Engelm.       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i> Engelm.       | None found                                                                                          |
| ECCR        | <i>Echinochloa crus-galli</i> (L.) Beauv.                               | <i>Echinochloa crus-galli</i> (L.) Beauv.                               | None found                                                                                          |
| ELAN        | <i>Elaeagnus angustifolia</i> L.                                        | <i>Elaeagnus angustifolia</i> L.                                        | None found                                                                                          |
| ELPA3       | <i>Eleocharis palustris</i> (L.) Roemer & J.A. Schultes                 | <i>Eleocharis macrostachya</i> Britt.                                   |                                                                                                     |
| ELCA4       | <i>Elymus canadensis</i> L.                                             | <i>Elymus canadensis</i> L.                                             | None found                                                                                          |
| ELGL        | <i>Elymus glaucus</i> Buckl.                                            | <i>Elymus glaucus</i> Buckl.                                            | None found                                                                                          |
| ELVI3       | <i>Elymus virginicus</i> L.                                             | <i>Elymus virginicus</i> L.                                             | None found                                                                                          |
| EPTO        | <i>Ephedra torreyana</i> S. Wats.                                       | <i>Ephedra torreyana</i> S. Wats.                                       |                                                                                                     |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i> Coville                      | <i>Ephedra viridis</i> var. <i>viridis</i> Coville                      | None found                                                                                          |
| EPAN2       | <i>Epilobium angustifolium</i> L.                                       | <i>Epilobium angustifolium</i> L.                                       | <i>Chamenerion angustifolium</i> (L.) Scop.                                                         |
| EPCI        | <i>Epilobium ciliatum</i> Raf.                                          | <i>Epilobium ciliatum</i> Raf.                                          | See Foxx & Tierney (1985)                                                                           |
| EPOR2       | <i>Epilobium oregonense</i> Hausskn.                                    | <i>Epilobium oregonense</i> Hausskn.                                    | None found                                                                                          |
| EPBR3       | <i>Epilobium brachycarpum</i> K. Presl                                  | <i>Epilobium paniculatum</i> Nutt. ex Torr. & Gray                      | See Foxx & Tierney (1985)                                                                           |
| EPGI        | <i>Epipactis gigantea</i> Dougl. ex Hook.                               | <i>Epipactis gigantea</i> Dougl. ex Hook.                               | None found                                                                                          |
| EQAR        | <i>Equisetum arvense</i> L.                                             | <i>Equisetum arvense</i> L.                                             | None found                                                                                          |
| EQHY        | <i>Equisetum hyemale</i> L.                                             | <i>Equisetum hyemale</i> L.                                             | <i>Equisetum robustum</i> A. Br.; <i>E. prealtum</i>                                                |
| EQLA        | <i>Equisetum laevigatum</i> A. Braun                                    | <i>Equisetum laevigatum</i> A. Braun                                    | <i>Equisetum kansanum</i> Schaffn.                                                                  |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i> (Fourn.) J. Reeder   | <i>Eragrostis arida</i> A.S. Hitchc.                                    | None found                                                                                          |
| ERBA2       | <i>Eragrostis barrelieri</i> Daveau                                     | <i>Eragrostis barrelieri</i> Daveau                                     | None found                                                                                          |
| ERCI        | <i>Eragrostis cilianensis</i> (All.) Lut. ex Janchen                    | <i>Eragrostis cilianensis</i> (All.) Lut. ex Janchen                    |                                                                                                     |
| ERCU2       | <i>Eragrostis curvula</i> (Schrud.) Nees                                | <i>Eragrostis curvula</i> (Schrud.) Nees                                |                                                                                                     |
| ERHY        | <i>Eragrostis hypnoides</i> (Lam.) B.S.P.                               | <i>Eragrostis hypnoides</i> (Lam.) B.S.P.                               |                                                                                                     |
| ERPE        | <i>Eragrostis pectinacea</i> (Michx.) Nees ex Steud.                    | <i>Eragrostis pectinacea</i> (Michx.) Nees ex Steud.                    |                                                                                                     |
| ERTR3       | <i>Eragrostis trichodes</i> (Nutt.) Wood                                | <i>Eragrostis trichodes</i> (Nutt.) Wood                                |                                                                                                     |
| ERAP        | <i>Erigeron aphanactis</i> Gray                                         | <i>Erigeron aphanactis</i> Gray                                         |                                                                                                     |
| ERCA4       | <i>Erigeron canus</i> Gray                                              | <i>Erigeron canus</i> Gray                                              | <i>Wyomingia cana</i> (Gray) A. Nels.                                                               |
| ERDI4       | <i>Erigeron divergens</i> Torr. & Gray                                  | <i>Erigeron divergens</i> Torr. & Gray                                  | <i>Erigeron wootonii</i> Rydb.; <i>E. divergens</i> var. <i>typicus</i> Cronq.                      |
| EREL9       | <i>Erigeron elatior</i> (Gray) Greene                                   | <i>Erigeron elatior</i> (Gray) Greene                                   | None found                                                                                          |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                           | Martin and Hutchins (1980)                                           | Synonyms as Found in References                                                                               |
|-------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| ERFL        | <i>Erigeron flagellaris</i> Gray                                           | <i>Erigeron flagellaris</i> Gray                                     | See Foxx & Tierney (1985)                                                                                     |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> Greene             | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> Greene       | See Fox & Tierney (1985)                                                                                      |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i> (Rydb.) Cronq.          | <i>Erigeron formosissimus</i> var. <i>viscidus</i> (Rydb.) Cronq.    |                                                                                                               |
| ERFL        | <i>Erigeron flagellaris</i> Gray                                           | <i>Erigeron nudiflorus</i> Buckl.                                    | See Foxx & Tierney (1985)                                                                                     |
| ERGL2       | <i>Erigeron glabellus</i> var. <i>pubescens</i> Nutt.                      | <i>Erigeron glabellus</i> var. <i>pubescens</i> Nutt.                |                                                                                                               |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i> (Greene) Cronq.       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i> (Greene) Cronq. | <i>Erigeron callianthemus</i> Greene; <i>E. salsuginosus</i> (Richards.) Gray                                 |
| ERPH        | <i>Erigeron philadelphicus</i> L.                                          | <i>Erigeron philadelphicus</i> L.                                    | None found                                                                                                    |
| ERVR        | <i>Erigeron vreelandii</i> Greene                                          | <i>Erigeron platyphyllus</i> Greene                                  | <i>Erigeron rudis</i> Woot. & Standl.; <i>E. sermirusus</i> Woot. & Standl.                                   |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinus</i> (Hook. & Arn.) Torr. & Gray | <i>Erigeron pumilus</i> ssp. <i>concinoides</i> Cronq.               | <i>Erigeron concinnus</i> Torr. & Gray; <i>E. setulosus</i> Greene                                            |
| ERRH2       | <i>Erigeron rhizomatus</i> Cronq.                                          | <i>Erigeron rhizomatus</i> Cronq.                                    |                                                                                                               |
| ERSI3       | <i>Erigeron simplex</i> Greene                                             | <i>Erigeron simplex</i> Greene                                       | <i>Erigeron leucotrichus</i> Rydb.                                                                            |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i> (Nutt.) Cronq.            | <i>Erigeron speciosus</i> var. <i>macranthus</i> (Nutt.) Cronq.      | <i>Erigeron leiophyllus</i> Greene; <i>E. macranthus</i> Nutt.                                                |
| ERSU2       | <i>Erigeron subtrinervis</i> Rydb. ex Porter & Britt.                      | <i>Erigeron subtrinervis</i> Rydb. ex Porter & Britt.                | <i>Erigeron bakeri</i> Woot. & Standl.; <i>E. subtrinervis</i> subsp. <i>typicus</i> Cronq.                   |
| EREX4       | <i>Erigeron eximius</i> Greene                                             | <i>Erigeron superbus</i> Greene ex Rydb.                             | None found                                                                                                    |
| ERUT        | <i>Erigeron utahensis</i> Gray                                             | <i>Erigeron utahensis</i> Gray                                       | None found                                                                                                    |
| ERVE2       | <i>Erigeron vetensis</i> Rydb.                                             | <i>Erigeron vetensis</i> Rydb.                                       | None found                                                                                                    |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i> (J. Presl) Kunth          | <i>Eriochloa gracilis</i> (Fourn.) A.S. Hitchc.                      | None found                                                                                                    |
| ERAB2       | <i>Eriogonum abertianum</i> Torr.                                          | <i>Eriogonum abertianum</i> Torr.                                    | None found                                                                                                    |
| ERAL4       | <i>Eriogonum alatum</i> Torr.                                              | <i>Eriogonum alatum</i> Torr.                                        | None found                                                                                                    |
| ERAN4       | <i>Eriogonum annuum</i> Nutt.                                              | <i>Eriogonum annuum</i> Nutt.                                        | None found                                                                                                    |
| ERCE2       | <i>Eriogonum cernuum</i> Nutt.                                             | <i>Eriogonum cernuum</i> Nutt.                                       | None found                                                                                                    |
| EREF        | <i>Eriogonum effusum</i> Nutt.                                             | <i>Eriogonum effusum</i> Nutt.                                       | <i>Eriogonum effusum</i> subsp. <i>typicum</i> Stokes                                                         |
| ERJA        | <i>Eriogonum jamesii</i> Benth.                                            | <i>Eriogonum jamesii</i> Benth.                                      | None found                                                                                                    |
| ERLE9       | <i>Eriogonum leptocladon</i> Torr. & Gray                                  | <i>Eriogonum leptocladon</i> Torr. & Gray                            | See Foxx & Tierney (1985)                                                                                     |
| ERLE10      | <i>Eriogonum leptophyllum</i> Torr. & Gray                                 | <i>Eriogonum leptophyllum</i> Torr. & Gray                           |                                                                                                               |
| ERPO4       | <i>Eriogonum polycladon</i> Benth.                                         | <i>Eriogonum polycladon</i> Benth.                                   | <i>Eriogonum polycladon</i> v. <i>crispum</i> Grand.; <i>E. vimineum</i> sp. <i>polycladon</i> (Benth.) Stoke |
| ERRA3       | <i>Eriogonum racemosum</i> Nutt.                                           | <i>Eriogonum racemosum</i> Nutt.                                     | None found                                                                                                    |
| ERIC6       | <i>Erodium cicutarium</i> (L.) L'Her. ex Ait.                              | <i>Erodium cicutarium</i> (L.) L'Her. ex Ait.                        | <i>Geranium cicutarium</i> L.                                                                                 |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i> (Dougl. ex Hook.) Greene   | <i>Erysimum asperum</i> (Nutt.) DC.                                  | <i>Erysimum asperum</i> (Greene) Rydb. <i>E. bakeri</i> Rydb.; <i>Chirinia arida</i> Greene                   |
| ERCA14      | <i>Erysimum capitatum</i> (Dougl. ex Hook.) Greene                         | <i>Erysimum capitatum</i> (Dougl. ex Hook.) Greene                   | <i>Erysimum elatum</i> Nutt.; <i>E. whelleria</i> Rothr.                                                      |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                        | Martin and Hutchins (1980)                                               | Synonyms as Found in References                                                                       |
|-------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| ERIN7       | <i>Erysimum inconspicuum</i> (S. Wats.) MacM.                           | <i>Erysimum inconspicuum</i> (S. Wats.) MacM.                            | See Foxx & Tierney (1985)                                                                             |
| ERHE7       | <i>Erythronium hendersonii</i> S. Wats.                                 | <i>Erythronium hendersonii</i> S. Wats.                                  | None found                                                                                            |
| CHAL11      | <i>Chamaesyce albomarginata</i> (Torr. & Gray) Small                    | <i>Euphorbia albomarginata</i> Torr. & Gray                              | See Foxx & Tierney (1985)                                                                             |
| EUDE4       | <i>Euphorbia dentata</i> Michx.                                         | <i>Euphorbia dentata</i> Michx.                                          | <i>Poinsettia dentata</i> (Michx.) Klotzsch & Garcke                                                  |
| EUDE4       | <i>Euphorbia dentata</i> Michx.                                         | <i>Euphorbia dentata</i> var. <i>cuphosperma</i> (Engelm.) Fern.         | See Foxx & Tierney (1985)                                                                             |
| EUEX4       | <i>Euphorbia exstipulata</i> Engelm.                                    | <i>Euphorbia exstipulata</i> Engelm.                                     | <i>Zygophyllum exstipulatum</i> (Engelm.) Woot. & Standl.                                             |
| CHFE3       | <i>Chamaesyce fendleri</i> (Torr. & Gray) Small                         | <i>Chamaesyce fendleri</i> (Torr. & Gray) Small                          | <i>Chamaesyce fendleri</i> (Torr. & Gray) Small                                                       |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i> (Engelm.) Small             | <i>Euphorbia geyeri</i> Engelm.                                          | <i>Chamaesyce geyeri</i> (Engelm.) Small                                                              |
| EULU        | <i>Euphorbia lurida</i> Engelm.                                         | <i>Euphorbia lurida</i> Engelm.                                          | <i>Tithymalus luridus</i> (Engelm.) Woot. & Standl.                                                   |
| CHMI8       | <i>Chamaesyce missurica</i> (Raf.) Shinnars                             | <i>Euphorbia missurica</i> var. <i>intermedia</i> (Engelm.) L.C. Wheeler | <i>Euphorbia petaloidea</i> Engelm.; <i>Chamaesyce petaloidea</i> (Engelm.) Small                     |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> (Pers.) Small | <i>Euphorbia neomexicana</i> Greene                                      | <i>Chamaesyce neomexicana</i> (Greene) Standl.                                                        |
| CHRE4       | <i>Chamaesyce revoluta</i> (Engelm.) Small                              | <i>Euphorbia revoluta</i> Engelm.                                        | <i>Chamaesyce revoluta</i> (Engelm.) Small                                                            |
| EURO5       | <i>Euphorbia robusta</i> (Engelm.) Small                                | <i>Euphorbia robusta</i> (Engelm.) Small                                 |                                                                                                       |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> (Pers.) Small | <i>Euphorbia serpyllifolia</i> Pers.                                     | See Foxx & Tierney (1985)                                                                             |
| KRLA2       | <i>Krascheninnikovia lanata</i> (Pursh) Guldenstaedt                    | <i>Eurotia lanata</i> (Pursh) Moq.                                       | <i>Diotis lanata</i> Pursh; <i>E. subspinoea</i> Rydb.                                                |
| EVNU        | <i>Evolvulus nuttallianus</i> J.A. Schultes                             | <i>Evolvulus pilosus</i> Nutt.                                           |                                                                                                       |
| EVSE        | <i>Evolvulus sericeus</i> Sw.                                           | <i>Evolvulus sericeus</i> Sw.                                            |                                                                                                       |
| FAPA        | <i>Fallugia paradoxa</i> (D. Don) Endl. ex Torr.                        | <i>Fallugia paradoxa</i> (D. Don) Endl. ex Torr.                         | <i>Siversia paradoxa</i> D. Don                                                                       |
| FERUR       | <i>Fendlera rupicola</i> var. <i>rupicola</i> Gray                      | <i>Fendlera rupicola</i> var. <i>rupicola</i> Gray                       | None found                                                                                            |
| FEAR2       | <i>Festuca arizonica</i> Vasey                                          | <i>Festuca arizonica</i> Vasey                                           | None found                                                                                            |
| LOPR7       | <i>Lolium pratense</i> (Huds.) S.J. Darbyshire                          | <i>Festuca elatior</i> L. p.p.                                           | <i>Festuca pratensis</i>                                                                              |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i> (Walt.) Rydb.             | <i>Festuca octoflora</i> Walt.                                           | <i>Vulpia octoflora</i> (Walt.) Rydb.                                                                 |
| FEOV        | <i>Festuca ovina</i> L.                                                 | <i>Festuca ovina</i> L.                                                  | None found                                                                                            |
| FESO        | <i>Festuca sororia</i> Piper                                            | <i>Festuca sororia</i> Piper                                             | None found                                                                                            |
| FETH        | <i>Festuca thurberi</i> Vasey                                           | <i>Festuca thurberi</i> Vasey                                            | None found                                                                                            |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i> Nutt.                 | <i>Forestiera neomexicana</i> Gray                                       | <i>Adelia neomexicana</i> (Gray) Kuntze; <i>Forestiera pubescens</i> var. <i>glabrifolia</i> Shinnars |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i> (Porter) Staudt             | <i>Fragaria americana</i> (Porter) Britt.                                | <i>Fragaria bracteata</i> Heller                                                                      |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i> Duchesne              | <i>Fragaria ovalis</i> (Lehm.) Rydb.                                     | <i>Potentilla ovalis</i> Lehm.; <i>Fragaria firma</i> Rydb.                                           |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                                      | <i>Franseria acanthicarpa</i> (Hook.) Coville                            | <i>Ambrosia acanthicarpa</i> Hook.; <i>Gaieria acanthicarpa</i> (Hook.) Britt.                        |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                                       | <i>Franseria confertiflora</i> (DC.) Rydb.                               | <i>Franseria tenuifolia</i> Gray; <i>Gaieria tenuifolia</i> (Gray) Kuntze                             |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                                     | <i>Gaillardia pinnatifida</i> Torr.                                      | <i>Gaillardia multiceps</i> Greene                                                                    |
| GAAP2       | <i>Galium aparine</i> L.                                                | <i>Galium aparine</i> L.                                                 | None found                                                                                            |



## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                              | Martin and Hutchins (1980)                                                    | Synonyms as Found in References                                                                       |
|-------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>aspermum</i> (Gray) Dempster                  | <i>Galium aspermum</i> Gray                                                   | None found                                                                                            |
| GABO2       | <i>Galium boreale</i> L.                                                      | <i>Galium boreale</i> L.                                                      | None found                                                                                            |
| GAFE        | <i>Galium fendleri</i> Gray                                                   | <i>Galium fendleri</i> Gray                                                   | None found                                                                                            |
| GAMI        | <i>Galium microphyllum</i> Gray                                               | <i>Galium microphyllum</i> Gray                                               | <i>Relbunium microphyllum</i> Hemsl.                                                                  |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i> (Wieg.) Piper                  | <i>Galium tinctorium</i> var. <i>subbiflorum</i> (Wieg.) Fern.                | <i>Galium trifidum</i> var. <i>subbiflorum</i> Wieg.                                                  |
| GACO5       | <i>Gaura coccinea</i> Nutt. ex Pursh                                          | <i>Gaura coccinea</i> Nutt. ex Pursh                                          | See Foxx & Tierney (1985)                                                                             |
| GAPA6       | <i>Gaura parviflora</i> Dougl. ex Lehm.                                       | <i>Gaura parviflora</i> Dougl. ex Lehm.                                       | See Foxx & Tierney (1985)                                                                             |
| GEAF        | <i>Gentiana affinis</i> Griseb.                                               | <i>Gentiana affinis</i> Griseb.                                               | <i>Dasystephana affinis</i> (Griseb.) Rydb.                                                           |
| GEAF        | <i>Gentiana affinis</i> Griseb.                                               | <i>Gentiana bigelovii</i> Gray                                                | <i>Dasystephana bigelovii</i> (Gray) Rydb.; <i>Gentiana interrupta</i> Greene                         |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i> (Michx.) J. Gillett             | <i>Gentiana plebeja</i> Ledeb. ex Spreng.                                     | <i>Amarella plebeia</i> (Cham.) Greene; <i>Gentiana scopulorum</i> Greene                             |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i> (Michx.) J. Gillett             | <i>Gentiana strictiflora</i> (Rydb.) A. Nels.                                 | <i>Amarella strictiflora</i> (Rydb.) Greene                                                           |
| GECA3       | <i>Geranium caespitosum</i> James                                             | <i>Geranium caespitosum</i> James                                             | <i>Geranium atropurpureum</i> Heller                                                                  |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i> (Torr. ex Gray) Dom         | <i>Geranium fremontii</i> Torr. ex Gray                                       | None found                                                                                            |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i> (Engelm.) W.A. Weber           | <i>Geranium fremontii</i> var. <i>parryi</i> Engelm.                          | <i>Geranium parryi</i> (Engelm.) Heller                                                               |
| GERI        | <i>Geranium richardsonii</i> Fisch. & Trautv.                                 | <i>Geranium richardsonii</i> Fisch. & Trautv.                                 | None found                                                                                            |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i> (Rydb.) Raup                  | <i>Geum macrophyllum</i> var. <i>perincisum</i> (Rydb.) Raup                  | <i>Geum oregonense</i> (Scheutz) Rydb.; <i>G. perincisum</i> Rydb.                                    |
| GERI2       | <i>Geum rivale</i> L.                                                         | <i>Geum rivale</i> L.                                                         | None found                                                                                            |
| GEAL3       | <i>Geum aleppicum</i> Jacq.                                                   | <i>Geum strictum</i> Ait.                                                     | None found                                                                                            |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i> (Pursh) Fassett                    | <i>Geum triflorum</i> var. <i>ciliatum</i> (Pursh) Fassett                    | <i>Geum ciliatum</i> Pursh; <i>Sieversia ciliata</i> (Pursh) G. Don.; <i>S. grisea</i> (Greene) Rydb. |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i> (A. & V. Grant) Day & V. Grant | <i>Gilia flavocincta</i> ssp. <i>australis</i> (A. & V. Grant) Day & V. Grant |                                                                                                       |
| GILE3       | <i>Gilia leptomeria</i> Gray                                                  | <i>Gilia leptomeria</i> Gray                                                  | None found                                                                                            |
| GIPI        | <i>Gilia pinnatifida</i> Nutt. ex Gray                                        | <i>Gilia pinnatifida</i> Nutt. ex Gray                                        | <i>Gilia calcarea</i> M. E. Jones; <i>G. viscida</i> Woot. & Standl.                                  |
| GISI        | <i>Gilia sinuata</i> Dougl.                                                   | <i>Gilia sinuata</i> Dougl.                                                   |                                                                                                       |
| GLBO        | <i>Glyceria borealis</i> (Nash) Batchelder                                    | <i>Glyceria borealis</i> (Nash) Batchelder                                    | <i>Panicularia boealis</i> Nash                                                                       |
| GLGR        | <i>Glyceria grandis</i> S. Wats.                                              | <i>Glyceria grandis</i> S. Wats.                                              |                                                                                                       |
| GLST        | <i>Glyceria striata</i> (Lam.) A.S. Hitchc.                                   | <i>Glyceria striata</i> (Lam.) A.S. Hitchc.                                   | <i>Glyceria nervata</i> Trin.; <i>G. striata</i> var. <i>stricta</i> Scribn. Fern.                    |
| GLLE3       | <i>Glycyrrhiza lepidota</i> Pursh                                             | <i>Glycyrrhiza lepidota</i> Pursh                                             | <i>Liquivita lepidota</i> Nutt.                                                                       |
| PSST7       | <i>Pseudognaphalium stramineum</i> (Kunth) W.A. Weber                         | <i>Gnaphalium chilense</i> Spreng.                                            |                                                                                                       |

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| USDA Symbol | USDA NRCS PLANTS                                                                                   | Martin and Hutchins (1980)                                                                         | Synonyms as Found in References                                                                          |
|-------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| PSST7       | <i>Pseudognaphalium stramineum</i> (Kunth) W.A. Weber                                              | <i>Gnaphalium chilense</i> Spreng.                                                                 | <i>Gnaphalium sulphurescens</i> Rydb.                                                                    |
| GNEX        | <i>Gnaphalium exilifolium</i> A. Nels.                                                             | <i>Gnaphalium grayi</i> A. Nels. & J.F. Macbr.                                                     |                                                                                                          |
| PSMA11      | <i>Pseudognaphalium macounii</i> (Greene) Kartesz, comb. nov. ined.                                | <i>Gnaphalium macounii</i> Greene                                                                  |                                                                                                          |
| GNPA        | <i>Gnaphalium palustre</i> Nutt.                                                                   | <i>Gnaphalium palustre</i> Nutt.                                                                   |                                                                                                          |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i> (DC.) W.A. Weber                           | <i>Gnaphalium wrightii</i> Gray                                                                    |                                                                                                          |
| GOOB2       | <i>Goodyera oblongifolia</i> Raf.                                                                  | <i>Goodyera oblongifolia</i> Raf.                                                                  | See Foxx & Tierney (1985)                                                                                |
| GORE2       | <i>Goodyera repens</i> (L.) R. Br. ex Ait. f.                                                      | <i>Goodyera repens</i> (L.) R. Br. ex Ait. f.                                                      | <i>Peramium ophiodes</i> (Fern.) Rydb.; <i>Goodyera repens</i> var. <i>ophiodes</i> Fern.                |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i> (Rydb.) Nesom                                         | <i>Grindelia aphanactis</i> Rydb.                                                                  | <i>Grindelia pinnatifida</i> Woot. & Standl.                                                             |
| GRFA        | <i>Grindelia fastigiata</i> Greene                                                                 | <i>Grindelia fastigiata</i> Greene                                                                 | None found                                                                                               |
| GRSQ        | <i>Grindelia squarrosa</i> (Pursh) Dunal                                                           | <i>Grindelia squarrosa</i> (Pursh) Dunal                                                           | <i>Donia squarrosa</i> Pursh                                                                             |
| GUMI        | <i>Gutierrezia microcephala</i> (DC.) Gray                                                         | <i>Gutierrezia microcephala</i> (DC.) Gray                                                         | See Foxx & Tierney (1985)                                                                                |
| GUSA2       | <i>Gutierrezia sarothrae</i> (Pursh) Britt. & Rusby                                                | <i>Gutierrezia sarothrae</i> (Pursh) Britt. & Rusby                                                | See Foxx & Tierney (1985)                                                                                |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i> (L.) Lindl.                                   | <i>Habenaria hyperborea</i> (L.) R. Br. ex Ait. f.                                                 |                                                                                                          |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i> (S. Wats.) Schlechter                       | <i>Habenaria sparsiflora</i> S. Wats.                                                              | <i>Limnorchis sparsiflora</i> (Wats.) Rydb.; <i>L. laxiflora</i> Rydb.; <i>L. ensifolia</i> Rydb.        |
| HAFL2       | <i>Hackelia floribunda</i> (Lehm.) I.M. Johnston                                                   | <i>Hackelia floribunda</i> (Lehm.) I.M. Johnston                                                   | <i>Lappula floribunda</i> (Lehm.) Greene                                                                 |
| HABE3       | <i>Hackelia besseyi</i> (Rydb.) J.L. Gentry                                                        | <i>Hackelia grisea</i> (Woot. & Standl.) I.M. Johnston                                             |                                                                                                          |
| HAPI2       | <i>Hackelia pinetorum</i> (Greene ex Gray) I.M. Johnston                                           | <i>Hackelia pinetorum</i> (Greene ex Gray) I.M. Johnston                                           | <i>Lappula pinetorum</i> Greene                                                                          |
| STAR10      | <i>Stenotus amerioides</i> Nutt.                                                                   | <i>Haplopappus amerioides</i> Nutt.                                                                |                                                                                                          |
| PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i> (Gray) Greene                                           | <i>Haplopappus croceus</i> Gray                                                                    |                                                                                                          |
| MAGR10      | <i>Machaeranthera gracilis</i> (Nutt.) Shinnars                                                    | <i>Haplopappus gracilis</i> (Nutt.) Gray                                                           | <i>Sideranthus gracilis</i> (Nutt.) Rydb.; <i>Dieteria gracilis</i> Nutt.                                |
| MAGRG       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i> (Nutt.) Shinnars                     | <i>Haplopappus nuttallii</i> Torr. & Gray                                                          | <i>Sideranthus grindelioides</i> (Nutt.) Britt.; <i>Machaeranthera grindelioides</i> (Nu.) Shinnars      |
| SOPA4       | <i>Solidago parryi</i> (Gray) Greene                                                               | <i>Haplopappus parryi</i> Gray                                                                     | <i>Oreochrysum parryi</i> (Gray) Rydb.                                                                   |
| MAPIP4      | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> (Hook.) Shinnars | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> (Hook.) Shinnars | None found                                                                                               |
| HEDR        | <i>Hedeoma drummondii</i> Benth.                                                                   | <i>Hedeoma drummondii</i> Benth.                                                                   | <i>Hedeoma ciliata</i> Nutt.; <i>H. lata</i> Small; <i>H. sancta</i> Small                               |
| HENA        | <i>Hedeoma nana</i> (Torr.) Briq.                                                                  | <i>Hedeoma nana</i> (Torr.) Briq.                                                                  | <i>Hedeoma dentata</i> var. <i>nana</i> Torr.; <i>H. thymoides</i> Gray                                  |
| HEOB        | <i>Hedeoma oblongifolia</i> (Gray) Heller                                                          | <i>Hedeoma oblongifolia</i> (Gray) Heller                                                          | <i>Hedeoma piperita</i> var. <i>oblongifolia</i> Gray; <i>H. thymoides</i> var. <i>oblongifolia</i> Gray |
| HEPU12      | <i>Hedeoma pulcherrima</i> Woot. & Standl.                                                         | <i>Hedeoma pulcherrima</i> Woot. & Standl.                                                         |                                                                                                          |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i> (Nutt.) Fern.                                       | <i>Helenium autumnale</i> var. <i>montanum</i> (Nutt.) Fern.                                       |                                                                                                          |

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| USDA Symbol | USDA NRCS PLANTS                                                                          | Martin and Hutchins (1980)                                          | Synonyms as Found in References                                                                                |
|-------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| HYHO        | <i>Hymenoxys hoopesii</i> (Gray) Biemer                                                   | <i>Helenium hoopesii</i> Gray                                       | Dugaldea hoopesii (Gray) Rydb.                                                                                 |
| HEPA        | <i>Helianthella parryi</i> Gray                                                           | <i>Helianthella parryi</i> Gray                                     |                                                                                                                |
| HEQU2       | <i>Helianthella quinquenervis</i> (Hook.) Gray                                            | <i>Helianthella quinquenervis</i> (Hook.) Gray                      | <i>Helianthella majuscula</i> Greene; <i>H. quinquenervis</i> Hook.                                            |
| HEAN3       | <i>Helianthus annuus</i> L.                                                               | <i>Helianthus annuus</i> L.                                         | <i>H. aridis</i> Rydb.                                                                                         |
| HEAR8       | <i>Helianthus arizonensis</i> R.C. Jackson                                                | <i>Helianthus arizonensis</i> R.C. Jackson                          | None found                                                                                                     |
| HEPE        | <i>Helianthus petiolaris</i> Nutt.                                                        | <i>Helianthus petiolaris</i> Nutt.                                  | None found                                                                                                     |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i> (Rydb.) O. Spring & E. Schilling | <i>Helianthus rigidus</i> ssp. <i>subrhomboideus</i> (Rydb.) Heiser |                                                                                                                |
| HEMA80      | <i>Heracleum maximum</i> Bartr.                                                           | <i>Heracleum lanatum</i> Michx.                                     | None found                                                                                                     |
| HEPA11      | <i>Heuchera parvifolia</i> Nutt. ex Torr. & Gray                                          | <i>Heuchera parvifolia</i> Nutt. ex Torr. & Gray                    | None found                                                                                                     |
| HICA4       | <i>Hieracium cameum</i> Greene                                                            | <i>Hieracium cameum</i> Greene                                      |                                                                                                                |
| HIFE        | <i>Hieracium fendleri</i> Schultz-Bip.                                                    | <i>Hieracium fendleri</i> Schultz-Bip.                              | <i>Heteropleura fendleria</i> (Sch. Bip.) Rydb.                                                                |
| HIPR2       | <i>Hieracium pringlei</i> Gray                                                            | <i>Hieracium pringlei</i> Gray                                      |                                                                                                                |
| HIOD        | <i>Hierochloe odorata</i> (L.) Beauv.                                                     | <i>Hierochloe odorata</i> (L.) Beauv.                               | <i>Savastana odorata</i> (L.) Scribn.                                                                          |
| PLJA        | <i>Pleuraphis jamesii</i> Torr.                                                           | <i>Hilaria jamesii</i> (Torr.) Benth.                               | <i>Pleuraphis jamesii</i> Torr.                                                                                |
| HODU        | <i>Holodiscus dumosus</i> (Nutt. ex Hook.) Heller                                         | <i>Holodiscus dumosus</i> (Nutt. ex Hook.) Heller                   | See Foxx & Tierney (1985)                                                                                      |
| HOBR2       | <i>Hordeum brachyantherum</i> Nevski                                                      | <i>Hordeum brachyantherum</i> Nevski                                | None found                                                                                                     |
| HOJU        | <i>Hordeum jubatum</i> L.                                                                 | <i>Hordeum jubatum</i> L.                                           | None found                                                                                                     |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i> E. Small                                    | <i>Humulus lupulus</i> ssp. <i>americanus</i> (Nutt.) A. & D. Love  | <i>Humulus lupulus</i> var. <i>neomexicanus</i> Nels. & Cockl.                                                 |
| HYFE        | <i>Hydrophyllum fendleri</i> (Gray) Heller                                                | <i>Hydrophyllum fendleri</i> (Gray) Heller                          |                                                                                                                |
| HYFI        | <i>Hymenopappus filifolius</i> Hook.                                                      | <i>Hymenopappus filifolius</i> Hook.                                | <i>Hydrophyllum occidental</i> var. <i>fendleri</i> Gray                                                       |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i> Gray                                | <i>Hymenopappus flavescens</i> var. <i>flavescens</i> Gray          | None found                                                                                                     |
| HYNE        | <i>Hymenopappus newberryi</i> (Gray) I.M. Johnston                                        | <i>Hymenopappus newberryi</i> (Gray) I.M. Johnston                  |                                                                                                                |
| HYTE2       | <i>Hymenopappus tenuifolius</i> Pursh                                                     | <i>Hymenopappus tenuifolius</i> Pursh                               | <i>Leucampyz newberryi</i> Gray                                                                                |
| TECA2       | <i>Tetradymia canescens</i> DC.                                                           | <i>Tetradymia canescens</i> DC.                                     | <i>Rothia tenuifolia</i> Kuntze                                                                                |
| TEACA       | <i>Tetranneuris acaulis</i> var. <i>arizonica</i> (Greene) Parker                         | <i>Hymenoxys acaulis</i> var. <i>arizonica</i> (Greene) Parker      | <i>Actinea acaulis</i> (Pursh) Spreng.; <i>A. depressa</i> v. <i>pygmaea</i> Gray; <i>Tetranneuris acaulis</i> |
| TEACN       | <i>Tetranneuris acaulis</i> var. <i>nana</i> (Welsh) Kartesz, comb. nov. ined.            | <i>Hymenoxys argentea</i> (Gray) Parker                             | See Foxx & Tierney (1985)                                                                                      |
| TEBR        | <i>Tetranneuris brandegei</i> (Porter ex Gray) Parker                                     | <i>Hymenoxys brandegei</i> Porter ex Gray                           | <i>Actinell leptoclada</i> (Gray) Greene; <i>A. argentea</i> Gray; <i>A. formosa</i> A. Nels.                  |
| TEIV        | <i>Tetranneuris ivesiana</i> Greene                                                       | <i>Hymenoxys ivesiana</i> (Greene) Parker                           | <i>Actinella brandegei</i> Porter; Rydb. <i>ergia</i> b. (Porter) Rydb.; <i>Actinea</i> b. (Porter) Rydb.      |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i> (Gray) Parker                        | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i> (Gray) Parker  | <i>Tetranneuris ivesiana</i> Greene; <i>Hymenoxys acaulis</i> var. <i>ivesiana</i> (Greene) Parker             |
| HYNI        | <i>Hyoscyamus niger</i> L.                                                                | <i>Hyoscyamus niger</i> L.                                          | See Foxx & Tierney (1979)                                                                                      |
| HYFO4       | <i>Hypericum formosum</i> H.B.K.                                                          | <i>Hypericum formosum</i> H.B.K.                                    | None found                                                                                                     |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                      | Martin and Hutchins (1980)                                        | Synonyms as Found in References                                                                |
|-------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| IPCO3       | <i>Ipomoea coccinea</i> L.                                                            | <i>Ipomoea coccinea</i> L.                                        | <i>Hypericum scouleri</i> Hook.; <i>H. formosum</i> var. <i>scouleri</i> (Hook.) Coult.        |
| IPHE        | <i>Ipomoea hederacea</i> Jacq.                                                        | <i>Ipomoea hederacea</i> Jacq.                                    | <i>Quamoclit coccinea</i> (L.) Moench                                                          |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i> (Pursh) V. Grant                     | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i> (Pursh) V. Grant | <i>Pharbitis hederacea</i> (L.) Choisy                                                         |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i> Patterson                           | <i>Ipomopsis aggregata</i> var. <i>tenuilobus</i> (Rydb.) Dom     | See Foxx & Tierney (1985)                                                                      |
| IPLA2       | <i>Ipomopsis laxiflora</i> (Coult.) V. Grant                                          | <i>Ipomopsis laxiflora</i> (Coult.) V. Grant                      | <i>Gilia texana</i> (Greene) Woot. & Standl.                                                   |
| IPLO2       | <i>Ipomopsis longiflora</i> (Torr.) V. Grant                                          | <i>Ipomopsis longiflora</i> (Torr.) V. Grant                      | <i>Gilia laxiflora</i> (Coult.) Osterh.; <i>G. macombii</i> var. <i>laxiflora</i> Coult.       |
| IPMU3       | <i>Ipomopsis multiflora</i> (Nutt.) V. Grant                                          | <i>Ipomopsis multiflora</i> (Nutt.) V. Grant                      | <i>Gilia longiflora</i> (Torr.) G. Don                                                         |
| IPPU4       | <i>Ipomopsis pumila</i> (Nutt.) V. Grant                                              | <i>Ipomopsis pumila</i> (Nutt.) V. Grant                          | <i>Gilia multiflora</i> Nutt.; <i>g. brachysiphon</i> Woot. & Standl.                          |
| IRMI        | <i>Iris missouriensis</i> Nutt.                                                       | <i>Iris missouriensis</i> Nutt.                                   | <i>Gilia pumila</i> Nutt.                                                                      |
| IVAX        | <i>Iva axillaris</i> Pursh                                                            | <i>Iva axillaris</i> Pursh                                        | None found                                                                                     |
| IVXA        | <i>Iva xanthifolia</i> Nutt.                                                          | <i>Iva xanthifolia</i> Nutt.                                      | None found                                                                                     |
| JAAM        | <i>Jamesia americana</i> Torr. & Gray                                                 | <i>Jamesia americana</i> Torr. & Gray                             | <i>Cyclochaena xanthifolia</i> (Nutt.) Fresn.                                                  |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i> Engelm.                                   | <i>Juncus balticus</i> var. <i>montanus</i> Engelm.               | <i>Edwinia americana</i> (Torr. & Gray) Heller                                                 |
| JUBU        | <i>Juncus bufonius</i> L.                                                             | <i>Juncus bufonius</i> L.                                         | None found                                                                                     |
| JUCO2       | <i>Juncus confusus</i> Coville                                                        | <i>Juncus confusus</i> Coville                                    | None found                                                                                     |
| JUDR        | <i>Juncus drummondii</i> E. Mey.                                                      | <i>Juncus drummondii</i> E. Mey.                                  | None found                                                                                     |
| JUIN2       | <i>Juncus interior</i> Wieg.                                                          | <i>Juncus interior</i> Wieg.                                      | None found                                                                                     |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i> Torr.                               | <i>Juncus longistylis</i> var. <i>longistylis</i> Torr.           | None found                                                                                     |
| JUMA4       | <i>Juncus marginatus</i> Rostk.                                                       | <i>Juncus marginatus</i> Rostk.                                   | None found                                                                                     |
| JUME4       | <i>Juncus mexicanus</i> Willd. ex J.A. & J.H. Schultes                                | <i>Juncus mexicanus</i> Willd. ex J.A. & J.H. Schultes            | <i>Juncus setosus</i> (Cov.) Small; <i>J. marginatus</i> var. <i>setosus</i> Cov.              |
| JUTE        | <i>Juncus tenuis</i> Willd.                                                           | <i>Juncus tenuis</i> Willd.                                       | <i>Juncus balticus</i> var. <i>mexicanus</i> (Willd.) Kuntze                                   |
| JUTO        | <i>Juncus torreyi</i> Coville                                                         | <i>Juncus torreyi</i> Coville                                     |                                                                                                |
| JUXI        | <i>Juncus xiphioides</i> E. Mey.                                                      | <i>Juncus xiphioides</i> E. Mey.                                  | <i>Juncus nodosus</i> var. <i>megacephalus</i> Torr.                                           |
| JUCO6       | <i>Juniperus communis</i> L.                                                          | <i>Juniperus communis</i> L.                                      |                                                                                                |
| JUDE2       | <i>Juniperus deppeana</i> Steud.                                                      | <i>Juniperus deppeana</i> Steud.                                  | <i>Juniperus communis</i> var. <i>montana</i> Ait.; <i>J. sibirica</i> Burgsd.                 |
| JUMO        | <i>Juniperus monosperma</i> (Engelm.) Sarg.                                           | <i>Juniperus monosperma</i> (Engelm.) Sarg.                       | <i>Juniperus pacyphloea</i> Torr.; <i>J. deppeana</i> var. <i>pachyphloea</i> (Torr.) Martinez |
| JUSC2       | <i>Juniperus scopulorum</i> Sarg.                                                     | <i>Juniperus scopulorum</i> Sarg.                                 | See Foxx & Tierney (1985)                                                                      |
| KAHI        | <i>Kallstroemia hirsutissima</i> Vail ex Small                                        | <i>Kallstroemia hirsutissima</i> Vail ex Small                    | <i>Juniperus virginiana</i> var. <i>scopulorum</i> Lemmon                                      |
| KOSC        | <i>Kochia scoparia</i> (L.) Schrad.                                                   | <i>Kochia scoparia</i> (L.) Schrad.                               | None found                                                                                     |
| KOMA        | <i>Koeleria macrantha</i> (Ledeb.) J.A. Schultes                                      | <i>Koeleria cristata</i> auct. p.p. non Pers.                     | None found                                                                                     |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                                                   | <i>Krigia biflora</i> (Walt.) Blake                               | <i>Koeleria pyramidata</i> (Lam.) Beauv.                                                       |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> (Woot. & Standl.) B.L. Turner | <i>Kuhnia chlorolepis</i> Woot. & Standl.                         |                                                                                                |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                       | Martin and Hutchins (1980)                                             | Synonyms as Found in References                                                                        |
|-------------|------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| LACA        | <i>Lactuca canadensis</i> L.                                           | <i>Lactuca canadensis</i> L.                                           | <i>Kuhnia rosmarinifolia</i> var. <i>chloroepsis</i> (Woot. & Standl.) Blake                           |
| LAGR        | <i>Lactuca graminifolia</i> Michx.                                     | <i>Lactuca graminifolia</i> Michx.                                     |                                                                                                        |
| LALU        | <i>Lactuca ludoviciana</i> (Nutt.) Riddell                             | <i>Lactuca ludoviciana</i> (Nutt.) Riddell                             | None found                                                                                             |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i> (Pursh) Breitung         | <i>Lactuca pulchella</i> (Pursh) DC.                                   | None found                                                                                             |
| LASE        | <i>Lactuca serriola</i> L.                                             | <i>Lactuca serriola</i> L.                                             | <i>Lactuca tatarica</i> subsp. <i>pulchella</i> (Pursh) Stebbins                                       |
| LABI        | <i>Lactuca biennis</i> (Moench) Fern.                                  | <i>Lactuca spicata</i> auct. non (Lam.) A.S. Hitchc.                   | <i>Lactuca scariola</i> L.                                                                             |
| LASQ        | <i>Lappula squarrosa</i> (Retz.) Dumort.                               | <i>Lappula squarrosa</i> (Retz.) Dumort.                               |                                                                                                        |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i> (S. Wats.) Greene | <i>Lappula redowskii</i> auct. non (Homem.) Greene                     | <i>L. lappula</i> (L.) Karnst.                                                                         |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i> (Gray) Higgins        | <i>Lappula texana</i> (Scheele) Britt.                                 | <i>Lappula occidentalis</i> (Wats.) Greene; <i>L. montanta</i> Greene; <i>L. calycosa</i> Rydb.        |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i> (Rydb.) Dom         | <i>Lathyrus arizonicus</i> Britt.                                      | <i>Lappula cupulata</i> (A. Gray) Rydb.; <i>L. heterosperma</i> Greene                                 |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i> (Rydb.) Dom         | <i>Lathyrus leucanthus</i> Rydb.                                       | None found                                                                                             |
| LEOR        | <i>Leersia oryzoides</i> (L.) Sw.                                      | <i>Leersia oryzoides</i> (L.) Sw.                                      | None found                                                                                             |
| LEMI3       | <i>Lemna minor</i> L.                                                  | <i>Lemna minor</i> L.                                                  |                                                                                                        |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i> (Greene) C.L. Hitchc.    | <i>Lepidium medium</i> Greene                                          | None found                                                                                             |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i> (Greene) Thellung     | <i>Lepidium medium</i> var. <i>pubescens</i> (Greene) B.L. Robins.     | See Foxx & Tierney (1985)                                                                              |
| LEFE        | <i>Lesquerella fendleri</i> (Gray) S. Wats.                            | <i>Lesquerella fendleri</i> (Gray) S. Wats.                            | <i>Lepidium intermedium</i> Gray; <i>L. virginicum</i> var. <i>medium</i> (Greene) Hitchc.             |
| LEIN3       | <i>Lesquerella intermedia</i> (S. Wats.) Heller                        | <i>Lesquerella intermedia</i> (S. Wats.) Heller                        | <i>Lesquerella stenophylla</i> (Gray) Rydb.; <i>Vesciaria fendleri</i> Gray                            |
| LERE3       | <i>Lesquerella rectipes</i> Woot. & Standl.                            | <i>Lesquerella rectipes</i> Woot. & Standl.                            | <i>Lesquerella arizonica</i> Wats.                                                                     |
| CHER2       | <i>Chaetopappa ericoides</i> (Torr.) Nesom                             | <i>Leucelene ericoides</i> (Torr.) Greene                              | None found                                                                                             |
| LIPU        | <i>Liatris punctata</i> Hook.                                          | <i>Liatris punctata</i> Hook.                                          | See Foxx & Tierney (1985)                                                                              |
| LIPO        | <i>Ligusticum porteri</i> Coult. & Rose                                | <i>Ligusticum porteri</i> Coult. & Rose                                | <i>Laciniaria punctata</i> (Hook.) Kuntze                                                              |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i> (Nutt.) Ker-Gawl.     | <i>Lilium umbellatum</i> Pursh                                         | None found                                                                                             |
| LIAQ        | <i>Limosella aquatica</i> L.                                           | <i>Limosella aquatica</i> L.                                           | <i>Lilium montanum</i> A. Nels.                                                                        |
| LINUN       | <i>Linanthastrum nuttallii</i> var. <i>nuttallii</i> Gray              | <i>Linanthastrum nuttallii</i> var. <i>nuttallii</i> Gray              |                                                                                                        |
| LIVU2       | <i>Linaria vulgaris</i> P. Mill.                                       | <i>Linaria vulgaris</i> P. Mill.                                       | None found                                                                                             |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i> Heller                      | <i>Linum aristatum</i> var. <i>australe</i> (Heller) Kearney & Peebles | None found                                                                                             |
| LILE3       | <i>Linum lewisii</i> Pursh                                             | <i>Linum lewisii</i> Pursh                                             | <i>Cathartolinum aristale</i> (Heller) Small; <i>Linum australe</i> Heller; <i>L. rupestre</i> Engelm. |
| LINE        | <i>Linum neomexicanum</i> Greene                                       | <i>Linum neomexicanum</i> Greene                                       | None found                                                                                             |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                         | Synonyms as Found in References                                                                     |
|-------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| LIPU4       | <i>Linum puberulum</i> (Engelm.) Heller                                                | <i>Linum puberulum</i> (Engelm.) Heller                            | <i>Cathartolium neomexicanum</i> (Greene) Small                                                     |
| LIRI        | <i>Linum rigidum</i> Pursh                                                             | <i>Linum rigidum</i> Pursh                                         | <i>Cathartolium puberulum</i> (Engelm.) Small; <i>C. vestitum</i> Woot. & Standl.                   |
| LICO7       | <i>Lithospermum cobrense</i> Greene                                                    | <i>Lithospermum cobrense</i> Greene                                |                                                                                                     |
| LIIN2       | <i>Lithospermum incisum</i> Lehm.                                                      | <i>Lithospermum incisum</i> Lehm.                                  | None found                                                                                          |
| LIMU3       | <i>Lithospermum multiflorum</i> Torr. ex Gray                                          | <i>Lithospermum multiflorum</i> Torr. ex Gray                      | <i>Lithospermum lincarifolium</i> Goldie; <i>L. angustifolium</i> Michx.; <i>L. oblongum</i> Greene |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i> (Lam.) McVaugh                          | <i>Lobelia cardinalis</i> ssp. <i>graminea</i> (Lam.) McVaugh      | None found                                                                                          |
| LOPE        | <i>Lolium perenne</i> L.                                                               | <i>Lolium perenne</i> L.                                           | <i>Lobelia splendens</i> Willd.                                                                     |
| LOIN5       | <i>Lonicera involucrata</i> Banks ex Spreng.                                           | <i>Lonicera involucrata</i> Banks ex Spreng.                       | None found                                                                                          |
| LOWR        | <i>Lotus wrightii</i> (Gray) Greene                                                    | <i>Lotus wrightii</i> (Gray) Greene                                | <i>Distegia involucrata</i> (Richards.) Raf.                                                        |
| LUAL5       | <i>Lupinus X alpestris</i> A. Nels. (pro sp.)                                          | <i>Lupinus X alpestris</i> A. Nels. (pro sp.)                      | <i>Ansiolotus wrightii</i> (Gray) Rydb.                                                             |
| LUAM        | <i>Lupinus ammophilus</i> Greene                                                       | <i>Lupinus ammophilus</i> Greene                                   | None found                                                                                          |
| LUAR3       | <i>Lupinus argenteus</i> Pursh                                                         | <i>Lupinus argenteus</i> Pursh                                     | None found                                                                                          |
| LUBR2       | <i>Lupinus brevicaulis</i> S. Wats.                                                    | <i>Lupinus brevicaulis</i> S. Wats.                                | None found                                                                                          |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i> (Gray) L. Phillips                     | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i> (Gray) L. Phillips |                                                                                                     |
| LUKI        | <i>Lupinus kingii</i> S. Wats.                                                         | <i>Lupinus kingii</i> S. Wats.                                     | <i>Lupinus aduncus</i> Greene; <i>L. argophyllus</i> (Gray) Cockl.                                  |
| LUPU        | <i>Lupinus pusillus</i> Pursh                                                          | <i>Lupinus pusillus</i> Pursh                                      | None found                                                                                          |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i> (Greene) Hess & D. Dunn               | <i>Lupinus rubricaulis</i> Greene                                  | <i>Lupinus pusillus</i> var. <i>intermontanus</i> (Heller) C. P. Smith                              |
| LUPA4       | <i>Luzula parviflora</i> (Ehrh.) Desv.                                                 | <i>Luzula parviflora</i> (Ehrh.) Desv.                             | None found                                                                                          |
| LYPA        | <i>Lycium pallidum</i> Miers                                                           | <i>Lycium pallidum</i> Miers                                       | <i>Juncus parviflora</i> Ehrh.; <i>Juncoides parviflorum</i> (Ehrh.) Cov.                           |
| LYAM        | <i>Lycopus americanus</i> Muhl. ex W. Bart.                                            | <i>Lycopus americanus</i> Muhl. ex W. Bart.                        | None found                                                                                          |
| LYPH        | <i>Lycurus phleoides</i> Kunth                                                         | <i>Lycurus phleoides</i> Kunth                                     |                                                                                                     |
| PSAS2       | <i>Psilactis asteroides</i> Gray                                                       | <i>Machaeranthera amplifolia</i> Woot. & Standl.                   | None found                                                                                          |
| MABI        | <i>Machaeranthera bigelovii</i> (Gray) Greene                                          | <i>Machaeranthera bigelovii</i> (Gray) Greene                      | <i>Aster amplifolius</i> (Woot. & Standl.) Kitell                                                   |
| MACA2       | <i>Machaeranthera canescens</i> (Pursh) Gray                                           | <i>Machaeranthera canescens</i> (Pursh) Gray                       | <i>Aster bigelovii</i> Gray; <i>Machaeranthera centaureoides</i> Greene                             |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i> Gray             | <i>Machaeranthera linearis</i> Greene                              |                                                                                                     |
| MATA2       | <i>Machaeranthera tanacetifolia</i> (Kunth) Nees                                       | <i>Machaeranthera tanacetifolia</i> (Kunth) Nees                   | <i>Machaeranthera cichoriacea</i> Greene; <i>Aster linearis</i> (Greene) Cory                       |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> (Lindl.) Gray | <i>Machaeranthera tephrodes</i> (Gray) Greene                      | See Foxx & Tierney (1985)                                                                           |
| MAFE        | <i>Malacothrix fendleri</i> Gray                                                       | <i>Malacothrix fendleri</i> Gray                                   | <i>Aster canescens</i> var. <i>tephrodes</i> Gray; <i>A. tephrodes</i> Blake                        |
| MAMA13      | <i>Malaxis macrostachya</i> (Lex.) Kuntze                                              | <i>Malaxis soulei</i> L.O. Williams                                | None found                                                                                          |

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| USDA Symbol | USDA NRCS PLANTS                                                     | Martin and Hutchins (1980)                                                 | Synonyms as Found in References                                                            |
|-------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| MANE        | <i>Malva neglecta</i> Wallr.                                         | <i>Malva neglecta</i> Wallr.                                               | <i>Microstylis montana</i> Rothr.; <i>Achroanthes montana</i> (Rothr.) Greene              |
| MAPA5       | <i>Malva parviflora</i> L.                                           | <i>Malva parviflora</i> L.                                                 | None found                                                                                 |
| MAWR2       | <i>Mammillaria wrightii</i> Engelm.                                  | <i>Mammillaria wrightii</i> Engelm.                                        | None found                                                                                 |
| MAVU        | <i>Marrubium vulgare</i> L.                                          | <i>Marrubium vulgare</i> L.                                                | None found                                                                                 |
| MAAN9       | <i>Maurandella antirrhiniflora</i> (Humb. & Bonpl. ex Willd.) Rothm. | <i>Maurandya antirrhiniflora</i> Humb. & Bonpl. ex Willd.                  | None found                                                                                 |
| MELU        | <i>Medicago lupulina</i> L.                                          | <i>Medicago lupulina</i> L.                                                | See Foxx & Tierney (1985)                                                                  |
| MESA        | <i>Medicago sativa</i> L.                                            | <i>Medicago sativa</i> L.                                                  | None found                                                                                 |
| MELE2       | <i>Melampodium leucanthum</i> Torr. & Gray                           | <i>Melampodium leucanthum</i> Torr. & Gray                                 | None found                                                                                 |
| MEPO        | <i>Melica porteri</i> Scribn.                                        | <i>Melica porteri</i> Scribn.                                              | None found                                                                                 |
| MEOF        | <i>Melilotus officinalis</i> (L.) Lam.                               | <i>Melilotus albus</i> Medik.                                              | None found                                                                                 |
| MEIN2       | <i>Melilotus indicus</i> (L.) All.                                   | <i>Melilotus indicus</i> (L.) All.                                         | None found                                                                                 |
| MEOF        | <i>Melilotus officinalis</i> (L.) Lam.                               | <i>Melilotus officinalis</i> (L.) Lam.                                     | <i>Trifolium melilotus</i> var. <i>indica</i> L.; <i>Melilotus parviflora</i> Desf.        |
| MESC        | <i>Menodora scabra</i> Gray                                          | <i>Menodora scabra</i> Gray                                                | <i>Trifolium melilotus</i> var. <i>efficalis</i> L.                                        |
| MEAR4       | <i>Mentha arvensis</i> L.                                            | <i>Mentha arvensis</i> L.                                                  |                                                                                            |
| MEAL6       | <i>Mentzelia albicaulis</i> (Dougl. ex Hook.) Dougl. ex Torr. & Gray | <i>Mentzelia albicaulis</i> (Dougl. ex Hook.) Dougl. ex Torr. & Gray       | See Foxx & Tierney (1985)                                                                  |
| MELA        | <i>Mentzelia laciniata</i> (Rydb.) J. Darl.                          | <i>Mentzelia laciniata</i> (Rydb.) J. Darl.                                | <i>Mentzelia parviflora</i> Heller; <i>Acrolasia albicaulis</i> (Dougl.) Rydb.             |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i> (Osterhout) Harrington     | <i>Mentzelia nuda</i> var. <i>stricta</i> (Osterhout) Harrington           | <i>Nuttallia laciniata</i> (Rydb.) Woot. & Standl.                                         |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i> Nutt. ex Torr. & Gray     | <i>Mentzelia pumila</i> var. <i>pumila</i> Nutt. ex Torr. & Gray           | <i>Nuttallia nuda</i> (Pursh) Greene; <i>Bartonia nuda</i> Pursh                           |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i> M.E. Jones           | <i>Mentzelia pumila</i> var. <i>integra</i> (M.E. Jones) Kearney & Peebles | See Foxx & Tierney (1985)                                                                  |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i> (Nutt.) Gray      | <i>Mentzelia pumila</i> var. <i>multiflora</i> (Nutt.) Urban & Gilg        | <i>Bartonia multiflora</i> Nutt.; <i>Nuttallia multiflora</i> (Nutt.) Greene               |
| MERU        | <i>Mentzelia rusbyi</i> Woot.                                        | <i>Mentzelia rusbyi</i> Woot.                                              | <i>Bartonia pumila</i> Nutt.; <i>Nuttallia pumila</i> (Nutt.) Greene                       |
| MEBR        | <i>Mertensia brevistyla</i> S. Wats.                                 | <i>Mertensia brevistyla</i> S. Wats.                                       | <i>Nuttallia rusbyi</i> (Woot.) Rydb.                                                      |
| MEFR2       | <i>Mertensia franciscana</i> Heller                                  | <i>Mertensia franciscana</i> Heller                                        | None found                                                                                 |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i> (S. Wats.) Higgins   | <i>Mertensia lanceolata</i> var. <i>fendleri</i> (Gray) Gray               | <i>Mertensia pratensis</i> Heller; <i>M. grandis</i> Woot. & Standl.; <i>M. alba</i> Rydb. |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> (Pursh) DC.       | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> (Pursh) DC.             | <i>Mertensia fendleri</i> Gray                                                             |
| URLI2       | <i>Uropappus linearifolius</i> Nutt.                                 | <i>Microseris linearifolia</i> (Nutt.) Schultz-Bip.                        | None found                                                                                 |
|             |                                                                      |                                                                            | <i>Uropappus linearifolius</i> Nutt.; <i>U. pruinosis</i> Greene                           |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i> (Hook.) Greene            | <i>Microsteris gracilis</i> (Hook.) Greene                                 | None found                                                                                 |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                      | Martin and Hutchins (1980)                                         | Synonyms as Found in References                                                                               |
|-------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| MIFL2       | <i>Mimulus floribundus</i> Lindl.                                                     | <i>Mimulus floribundus</i> Lindl.                                  |                                                                                                               |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i> (Torr. & Gray ex Benth.) Gray            | <i>Mimulus glabratus</i> var. <i>fremontii</i> (Benth.) A.L. Grant | None found                                                                                                    |
| MIGU        | <i>Mimulus guttatus</i> DC.                                                           | <i>Mimulus guttatus</i> DC.                                        | <i>Mimulus geyeri</i> Torr.                                                                                   |
| MIMO2       | <i>Mimulus montioides</i> Gray                                                        | <i>Mimulus rubellus</i> S. Wats.                                   |                                                                                                               |
| MICO7       | <i>Mirabilis coccinea</i> (Torr.) Benth. & Hook. f.                                   | <i>Mirabilis coccinea</i> (Torr.) Benth. & Hook. f.                | <i>Mimulus puberulus</i> Greene; <i>M. langsдорffii</i> Donn; <i>M. hallii</i> Greene                         |
| MIMU        | <i>Mirabilis multiflora</i> (Torr.) Gray                                              | <i>Mirabilis multiflora</i> (Torr.) Gray                           | <i>Allionia coccinea</i> (Torr) Standl.; <i>Oxybaphus coccineus</i> Torr.                                     |
| MIOX        | <i>Mirabilis oxybaphoides</i> (Gray) Gray                                             | <i>Mirabilis oxybaphoides</i> (Gray) Gray                          | <i>Quamoclidion multiflorum</i> Torr.; <i>Oxybaphus multiflorus</i> Torr.                                     |
| DRPA2       | <i>Dracocephalum parviflorum</i> Nutt.                                                | <i>Moldavica parviflora</i> (Nutt.) Britt.                         | See Foxx & Tierney (1985)                                                                                     |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> (Graham) Fern. | <i>Monarda menthifolia</i> Graham                                  | <i>Dracocephalum parviflorum</i> Nutt.                                                                        |
| MOPE        | <i>Monarda pectinata</i> Nutt.                                                        | <i>Monarda pectinata</i> Nutt.                                     | <i>Monarda comata</i> Rydb.; <i>M. stricta</i> Woot.; <i>M. fistulosa</i> v. <i>menthaefolia</i> (Grahm) Fern |
| MOHY3       | <i>Monotropa hypopithys</i> L.                                                        | <i>Monotropa latisquama</i> (Rydb.) Hulten                         | None found                                                                                                    |
| MUAR4       | <i>Muhlenbergia arsenei</i> A.S. Hitchc.                                              | <i>Muhlenbergia arsenei</i> A.S. Hitchc.                           | <i>Hypopitys latisquama</i> Rydb.; <i>M. hypopitys</i> var. <i>latisquama</i> (Rydb.) K. & P.                 |
| MUAS        | <i>Muhlenbergia asperifolia</i> (Nees & Meyen ex Trin.) Parodi                        | <i>Muhlenbergia asperifolia</i> (Nees & Meyen ex Trin.) Parodi     | None found                                                                                                    |
| MUCU        | <i>Muhlenbergia curtifolia</i> Scribn.                                                | <i>Muhlenbergia curtifolia</i> Scribn.                             | <i>Sporobolus asperifolius</i> (Nees & Mey.) Nees                                                             |
| MUME2       | <i>Muhlenbergia mexicana</i> (L.) Trin.                                               | <i>Muhlenbergia mexicana</i> (L.) Trin.                            | None found                                                                                                    |
| MUMO        | <i>Muhlenbergia montana</i> (Nutt.) A.S. Hitchc.                                      | <i>Muhlenbergia montana</i> (Nutt.) A.S. Hitchc.                   | None found                                                                                                    |
| MUPA2       | <i>Muhlenbergia pauciflora</i> Buckl.                                                 | <i>Muhlenbergia pauciflora</i> Buckl.                              | <i>Muhlenbergia subalpina</i> Vasey                                                                           |
| MUPO2       | <i>Muhlenbergia porteri</i> Scribn. ex Beal                                           | <i>Muhlenbergia porteri</i> Scribn. ex Beal                        | <i>Muhlenbergia neomexicana</i> Vasey                                                                         |
| MUPE3       | <i>Muhlenbergia peruviana</i> (Beauv.) Steud.                                         | <i>Muhlenbergia pulcherrima</i> Scribn. ex Beal                    | None found                                                                                                    |
| MURA        | <i>Muhlenbergia racemosa</i> (Michx.) B.S.P.                                          | <i>Muhlenbergia racemosa</i> (Michx.) B.S.P.                       | None found                                                                                                    |
| MURI2       | <i>Muhlenbergia rigens</i> (Benth.) A.S. Hitchc.                                      | <i>Muhlenbergia rigens</i> (Benth.) A.S. Hitchc.                   | None found                                                                                                    |
| MUTO2       | <i>Muhlenbergia torreyi</i> (Kunth) A.S. Hitchc. ex Bush                              | <i>Muhlenbergia torreyi</i> (Kunth) A.S. Hitchc. ex Bush           |                                                                                                               |
| MURA4       | <i>Muhlenbergia ramulosa</i> (Kunth) Swallen                                          | <i>Muhlenbergia wolfii</i> (Vasey) Rydb.                           | <i>Muhlenbergia grasillima</i> Torr.                                                                          |
| MUWR        | <i>Muhlenbergia wrightii</i> Vasey ex Coult.                                          | <i>Muhlenbergia wrightii</i> Vasey ex Coult.                       |                                                                                                               |
| MOSQ        | <i>Monroa squarrosa</i> (Nutt.) Torr.                                                 | <i>Monroa squarrosa</i> (Nutt.) Torr.                              | None found                                                                                                    |
|             |                                                                                       |                                                                    | None found                                                                                                    |
| NADI        | <i>Nama dichotomum</i> (Ruiz & Pavon) Choisy                                          | <i>Nama dichotomum</i> (Ruiz & Pavon) Choisy                       | None found                                                                                                    |
| NAHI        | <i>Nama hispidum</i> Gray                                                             | <i>Nama hispidum</i> Gray                                          | See Foxx & Tierney (1985)                                                                                     |
| NECA2       | <i>Nepeta cataria</i> L.                                                              | <i>Nepeta cataria</i> L.                                           | <i>Marilaunidium hispidum</i> (Gray) Kuntze; <i>Conanthus hispidus</i> (Gray) Heller                          |
| NIAT        | <i>Nicotiana attenuata</i> Torr. ex S. Wats.                                          | <i>Nicotiana attenuata</i> Torr. ex S. Wats.                       | None found                                                                                                    |



## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                      | Martin and Hutchins (1980)                                                        | Synonyms as Found in References                                               |
|-------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| NOMI        | <i>Nolina microcarpa</i> S. Wats.                                                     | <i>Nolina microcarpa</i> S. Wats.                                                 | None found                                                                    |
| NOTHO       | <i>Notholaena</i> R. Br.                                                              | <i>Notholaena</i> R. Br.                                                          |                                                                               |
| NOST        | <i>Notholaena standleyi</i> Maxon                                                     | <i>Notholaena standleyi</i> Maxon                                                 | Not applicable                                                                |
| OEAL        | <i>Oenothera albicaulis</i> Pursh                                                     | <i>Oenothera albicaulis</i> Pursh                                                 |                                                                               |
| OECE2       | <i>Oenothera cespitosa</i> Nutt.                                                      | <i>Oenothera cespitosa</i> Nutt.                                                  | See Foxx & Tierney (1985)                                                     |
| OECEM3      | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i> (Rydb.) W.L. Wagner               | <i>Oenothera cespitosa</i> ssp. <i>eximia</i> (Gray) Munz                         | None found                                                                    |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i> Nutt.                                | <i>Oenothera cespitosa</i> ssp. <i>montana</i> (Nutt.) Munz                       | See Foxx & Tierney (1985)                                                     |
| OEEO2       | <i>Oenothera coronopifolia</i> Torr. & Gray                                           | <i>Oenothera coronopifolia</i> Torr. & Gray                                       | See Foxx & Tierney (1985)                                                     |
| OEFL        | <i>Oenothera flava</i> (A. Nels.) Garrett                                             | <i>Oenothera flava</i> (A. Nels.) Garrett                                         | Anogra coronopifolia (Torr. & Gray) Britt.                                    |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i> (Torr. & Gray) W. Dietr. & W.L. Wagner     | <i>Oenothera hookeri</i> Torr. & Gray                                             | Lavauxia flava A. Nels.; L. hamata Woot&Standl.; Oenother hamata (W&S) Tides. |
| OELA        | <i>Oenothera laciniata</i> Hill                                                       | <i>Oenothera laciniata</i> Hill                                                   | None found                                                                    |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i> Lindl.                                   | <i>Oenothera pallida</i> ssp. <i>pallida</i> Lindl.                               | See Foxx & Tierney (1985)                                                     |
| OEPR        | <i>Oenothera primiveris</i> Gray                                                      | <i>Oenothera primiveris</i> Gray                                                  | Angora pallida (Lindl.) Britt.                                                |
| OPCL        | <i>Opuntia clavata</i> Engelm.                                                        | <i>Opuntia clavata</i> Engelm.                                                    | Lavauxia primiveris (Gray) Small                                              |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i> Engelm. & Bigelow ex Engelm.             | <i>Opuntia erinacea</i> var. <i>erinacea</i> Engelm. & Bigelow ex Engelm.         | None found                                                                    |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i> (Engelm.) L. Benson                     | <i>Opuntia erinacea</i> var. <i>utahensis</i> (Engelm.) L. Benson                 | None found                                                                    |
| OPIM        | <i>Opuntia imbricata</i> (Haw.) DC.                                                   | <i>Opuntia imbricata</i> (Haw.) DC.                                               | Opuntia sphaerocarpa var. <i>utahensis</i> Engelm.                            |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i> Engelm.                              | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i> Engelm.                          | Opuntia arborescens Engelm.                                                   |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> Engelm.                            | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> Engelm.                        | Opuntia plumbea Rose; O. stenochila Engelm.                                   |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i> Salm-Dyck                          | <i>Opuntia phaeacantha</i> var. <i>discata</i> (Griffiths) L. Benson & Walkington | Opuntia engelmanni Salm-Dyck; O. dillei Griffiths                             |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> Haw.                               | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> Haw.                           | Opuntia zuniensis Griffiths                                                   |
| ORFA        | <i>Orobancha fasciculata</i> Nutt.                                                    | <i>Orobancha fasciculata</i> var. <i>lutea</i> (Parry) Achey                      | None found                                                                    |
| ORLU        | <i>Orobancha ludoviciana</i> Nutt.                                                    | <i>Orobancha ludoviciana</i> Nutt.                                                | Thalesia lutea (Parry) Rydb.                                                  |
| ORLUM       | <i>Orobancha ludoviciana</i> ssp. <i>multiflora</i> (Nutt.) Collins, comb. nov. ined. | <i>Orobancha multiflora</i> Nutt.                                                 |                                                                               |
| ORLU2       | <i>Orthocarpus luteus</i> Nutt.                                                       | <i>Orthocarpus luteus</i> Nutt.                                                   | Myzorrhiza multiflora (Nutt.)                                                 |
| ORPU2       | <i>Orthocarpus purpureoalbus</i> Gray ex S. Wats.                                     | <i>Orthocarpus purpureoalbus</i> Gray ex S. Wats.                                 | None found                                                                    |
| ORAS        | <i>Oryzopsis asperifolia</i> Michx.                                                   | <i>Oryzopsis asperifolia</i> Michx.                                               | None found                                                                    |
| ACHY        | <i>Achnatherum hymenoides</i> (Roemer & J.A. Schultes) Barkworth                      | <i>Oryzopsis hymenoides</i> (Roemer & J.A. Schultes) Ricker ex Piper              | None found                                                                    |
| PIMI7       | <i>Piptatherum micranthum</i> (Trin. & Rupr.) Barkworth                               | <i>Oryzopsis micrantha</i> (Trin. & Rupr.) Thurb.                                 | None found                                                                    |
| OSDE        | <i>Osmorhiza depauperata</i> Phil.                                                    | <i>Osmorhiza obtusa</i> (Coults. & Rose) Fern.                                    | None found                                                                    |
| OXAL2       | <i>Oxalis alpina</i> (Rose) Rose ex R. Knuth                                          | <i>Oxalis metcalfei</i> (Small) R. Knuth                                          | Washingtonia obtusa Coults. & Rose                                            |
| OXVI        | <i>Oxalis violacea</i> L.                                                             | <i>Oxalis violacea</i> L.                                                         | Ionoxalis metcalfei Small; I. caerulea Small                                  |
| MIHI        | <i>Mirabilis hirsuta</i> (Pursh) MacM.                                                | <i>Oxybaphus hirsutus</i> (Pursh) Sweet                                           | Ionoxalis violacea (L.) Small                                                 |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                           | Martin and Hutchins (1980)                                  | Synonyms as Found in References                                                                      |
|-------------|----------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| MILI3       | <i>Mirabilis linearis</i> (Pursh) Heimerl                                  | <i>Oxybaphus linearis</i> (Pursh) B.L. Robins.              | <i>Allionia hirsuta</i> Pursh; <i>Oxybaphus hirsutus</i> Sweet                                       |
| OXFE        | <i>Oxypolis fendleri</i> (Gray) Heller                                     | <i>Oxypolis fendleri</i> (Gray) Heller                      | See Foxx & Tierney (1985)                                                                            |
| OXLA3       | <i>Oxytropis lambertii</i> Pursh                                           | <i>Oxytropis lambertii</i> Pursh                            | <i>Archemora fendleri</i> Gray                                                                       |
| PAMY        | <i>Paxistima myrsinites</i> (Pursh) Raf.                                   | <i>Paxistima myrsinites</i> (Pursh) Raf.                    |                                                                                                      |
| PABU        | <i>Panicum bulbosum</i> Kunth                                              | <i>Panicum bulbosum</i> Kunth                               | None found                                                                                           |
| PACA6       | <i>Panicum capillare</i> L.                                                | <i>Panicum capillare</i> L.                                 |                                                                                                      |
| PAHA        | <i>Panicum hallii</i> Vasey                                                | <i>Panicum hallii</i> Vasey                                 | None found                                                                                           |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> (Nash) Gould   | <i>Panicum helleri</i> Nash                                 |                                                                                                      |
| PAMI2       | <i>Panicum miliaceum</i> L.                                                | <i>Panicum miliaceum</i> L.                                 | <i>Panicum oligosanthes</i> var. <i>helleri</i> (Nash) Fern                                          |
| PAOB        | <i>Panicum obtusum</i> Kunth                                               | <i>Panicum obtusum</i> Kunth                                | None found                                                                                           |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> (Nash) Gould   | <i>Panicum scribnerianum</i> Nash                           | None found                                                                                           |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i> (Torr.) Freckmann | <i>Panicum tennesseense</i> Ashe                            | <i>Panicum oligosanthes</i> var. <i>scribnerianum</i> (Nash) Fern.                                   |
| PAVI2       | <i>Panicum virgatum</i> L.                                                 | <i>Panicum virgatum</i> L.                                  | None found                                                                                           |
| PAIN2       | <i>Parthenium incanum</i> Kunth                                            | <i>Parthenium incanum</i> Kunth                             | None found                                                                                           |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> (L.) Planch.   | <i>Parthenocissus inserta</i> (Kerner) Fritsch              |                                                                                                      |
| PEAN        | <i>Pectis angustifolia</i> Torr.                                           | <i>Pectis angustifolia</i> Torr.                            | <i>Ampelopsis quinquefolia</i> var. <i>vitaceae</i> ; <i>Parthenocissus vitaceae</i> (Knerr.) Hitch. |
| PEPA2       | <i>Pectis papposa</i> Harvey & Gray                                        | <i>Pectis papposa</i> Harvey & Gray                         | <i>Pectis papposa</i> var. <i>sessilis</i> M. E. Jones                                               |
| PEPR7       | <i>Pedicularis procera</i> Gray                                            | <i>Pedicularis grayi</i> A. Nels.                           | None found                                                                                           |
| SCPA10      | <i>Sclerocactus papyracanthus</i> (Engelm.) N.P. Taylor                    | <i>Pediocactus papyracanthus</i> (Engelm.) L. Benson        | None found                                                                                           |
| PEAT2       | <i>Pellaea atropurpurea</i> (L.) Link                                      | <i>Pellaea atropurpurea</i> (L.) Link                       | <i>Toumeya papyracantha</i> Engelm.; <i>Echinocactus papyracanthus</i> (Engel.) Britt.&Rose          |
| ARFE5       | <i>Argyrochosma fendleri</i> (Kunze) Windham                               | <i>Pellaea fendleri</i> (Kunze) Prantl                      | <i>Pteris atropurpurea</i> L.                                                                        |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i> (Maxon) Windham        | <i>Pellaea limitanea</i> (Maxon) Morton                     | <i>Notholaena fendleri</i> Kuntze                                                                    |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i> (D.C. Eat.) D.C. Eat.       | <i>Pellaea longimucronata</i> Hook.                         | <i>Notholaena limitanea</i> Maxon                                                                    |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i> (Benth.) Keck                | <i>Penstemon barbatus</i> ssp. <i>torreyi</i> (Benth.) Keck | <i>Pellaea wrightiana</i> var. <i>longimucronata</i> (Hook.) Davenp.                                 |
| PEEA        | <i>Penstemon eatonii</i> Gray                                              | <i>Penstemon eatonii</i> Gray                               | <i>Penstemon torreyi</i> Benth.; <i>P. barbatus</i> var. <i>torreyi</i> (Benth.) Gray                |
| PEFE        | <i>Penstemon fendleri</i> Torr. & Gray                                     | <i>Penstemon fendleri</i> Torr. & Gray                      | None found                                                                                           |
| PEJA        | <i>Penstemon jamesii</i> Benth.                                            | <i>Penstemon jamesii</i> Benth.                             | None found                                                                                           |
| PELE2       | <i>Penstemon lentus</i> Pennell                                            | <i>Penstemon lentus</i> Pennell                             | <i>Penstemon similis</i> A. Nels.                                                                    |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                             | Synonyms as Found in References                                               |
|-------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i> (A. Nels.) Keck                 | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i> (A. Nels.) Keck | None found                                                                    |
| PEOL        | <i>Penstemon oliganthus</i> Woot. & Standl.                                            | <i>Penstemon oliganthus</i> Woot. & Standl.                            | <i>Penstemon coloradoensis</i>                                                |
| PERY        | <i>Penstemon rydbergii</i> A. Nels.                                                    | <i>Penstemon rydbergii</i> A. Nels.                                    | None found                                                                    |
| PESE11      | <i>Penstemon secundiflorus</i> Benth.                                                  | <i>Penstemon secundiflorus</i> Benth.                                  | <i>Penstemon erosus</i> Rydb.; <i>P. lacerellus</i> Greene                    |
| PEST2       | <i>Penstemon strictus</i> Benth.                                                       | <i>Penstemon strictus</i> Benth.                                       |                                                                               |
| PEVI4       | <i>Penstemon virgatus</i> Gray                                                         | <i>Penstemon virgatus</i> Gray                                         | None found                                                                    |
| PEWH        | <i>Penstemon whippleanus</i> Gray                                                      | <i>Penstemon whippleanus</i> Gray                                      | None found                                                                    |
| PECA10      | <i>Pericome caudata</i> Gray                                                           | <i>Pericome caudata</i> Gray                                           | See Foxx & Tierney (1985)                                                     |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i> Willd.                                        | <i>Petalostemon candidus</i> Michx.                                    | None found                                                                    |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i> Spreng.                                     | <i>Petalostemon compactus</i> (Spreng.) Swezey                         | <i>Dalea candida</i> Willd.                                                   |
| DAEX2       | <i>Dalea exigua</i> Barneby                                                            | <i>Petalostemon exilis</i> Gray                                        | <i>Dalea compactum</i> Spreng; <i>Petalostemon macrostachyum</i> Torr.        |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i> Vent.                                       | <i>Petalostemon purpureus</i> (Vent.) Rydb.                            | None found                                                                    |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i> (Nutt.) Spreng.                               | <i>Petalostemon villosus</i> Nutt.                                     | See Foxx & Tierney (1985)                                                     |
| PHCO        | <i>Phacelia coerulea</i> Greene                                                        | <i>Phacelia coerulea</i> Greene                                        | None found                                                                    |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i> (A. Nels.) Brand                       | <i>Phacelia corrugata</i> A. Nels.                                     |                                                                               |
| PHHE2       | <i>Phacelia heterophylla</i> Pursh                                                     | <i>Phacelia heterophylla</i> Pursh                                     | None found                                                                    |
| PHIN        | <i>Phacelia integrifolia</i> Torr.                                                     | <i>Phacelia integrifolia</i> Torr.                                     | None found                                                                    |
| PHEG        | <i>Phacelia egea</i> (Greene ex Brand) Greene ex J.T. Howell                           | <i>Phacelia magellanica</i> (Lam.) Coville p.p.                        | None found                                                                    |
| PHNE3       | <i>Phacelia neomexicana</i> Thurb. ex Torr.                                            | <i>Phacelia neomexicana</i> Thurb. ex Torr.                            | None found                                                                    |
| PHAN3       | <i>Phaseolus angustissimus</i> Gray                                                    | <i>Phaseolus angustissimus</i> Gray                                    | None found                                                                    |
| STLE6       | <i>Strophostyles leiosperma</i> (Torr. & Gray) Piper                                   | <i>Phaseolus leiospermus</i> Torr. & Gray                              | None found                                                                    |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> Gray                         | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> Gray         | See Foxx & Tierney (1985)                                                     |
| PHAL2       | <i>Phleum alpinum</i> L.                                                               | <i>Phleum alpinum</i> L.                                               | None found                                                                    |
| PHPR3       | <i>Phleum pratense</i> L.                                                              | <i>Phleum pratense</i> L.                                              | None found                                                                    |
| PHLO2       | <i>Phlox longifolia</i> Nutt.                                                          | <i>Phlox longifolia</i> Nutt.                                          | None found                                                                    |
| PHJU        | <i>Phoradendron juniperinum</i> Engelm.                                                | <i>Phoradendron juniperinum</i> Engelm.                                | See Foxx & Tierney (1985)                                                     |
| PHAU7       | <i>Phragmites australis</i> (Cav.) Trin. ex Steud.                                     | <i>Phragmites communis</i> Trin.                                       | None found                                                                    |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i> (Rydb.) Waterfall ex Kartesz & Gandhi | <i>Physalis foetens</i> var. <i>neomexicana</i> (Rydb.) Waterfall      |                                                                               |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i> (Gray) Cronq.                         | <i>Physalis hederifolia</i> var. <i>cordifolia</i> (Gray) Waterfall    | <i>Physalis neomexicana</i> Rydb.                                             |
| PHPU7       | <i>Physalis pubescens</i> L.                                                           | <i>Physalis pubescens</i> L.                                           | <i>Physalis fendleri</i> Gray; <i>P. fendleri</i> var. <i>cordifolia</i> Gray |
| PHMO4       | <i>Physocarpus monogynus</i> (Torr.) Coult.                                            | <i>Physocarpus monogynus</i> (Torr.) Coult.                            | None found                                                                    |
| PIEN        | <i>Picea engelmannii</i> Parry ex Engelm.                                              | <i>Picea engelmannii</i> Parry ex Engelm.                              | <i>Spiraea monogyna</i> Torr.; <i>Opalaster monogynus</i> (Torr.) Kuntze      |
| PIPU        | <i>Picea pungens</i> Engelm.                                                           | <i>Picea pungens</i> Engelm.                                           | None found                                                                    |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                            | Martin and Hutchins (1980)                                     | Synonyms as Found in References                                                                          |
|-------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| PIED        | <i>Pinus edulis</i> Engelm.                                                 | <i>Pinus edulis</i> Engelm.                                    | <i>Picea parryana</i> Sarg.                                                                              |
| PIFL2       | <i>Pinus flexilis</i> James                                                 | <i>Pinus flexilis</i> James                                    | See Foxx & Tierney (1985)                                                                                |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i> Engelm.                       | <i>Pinus ponderosa</i> var. <i>scopulorum</i> Engelm.          | <i>Apinus flexilis</i> (James) Rydb.                                                                     |
| PLAR2       | <i>Plantago argyraea</i> Morris                                             | <i>Plantago argyraea</i> Morris                                | <i>Pinus brachyptera</i> Engelm.; <i>P. scopulorum</i> (Engelm.) Lemmon                                  |
| PLMA2       | <i>Plantago major</i> L.                                                    | <i>Plantago major</i> L.                                       | None found                                                                                               |
| PLPA2       | <i>Plantago patagonica</i> Jacq.                                            | <i>Plantago purshii</i> Roemer & J.A. Schultes                 | None found                                                                                               |
| PLSE        | <i>Pluchella sericea</i> Nutt.                                              | <i>Pluchella sericea</i> Nutt.                                 |                                                                                                          |
| POAN        | <i>Poa annua</i> L.                                                         | <i>Poa annua</i> L.                                            | None found                                                                                               |
| POBI        | <i>Poa bigelovii</i> Vasey & Scribn.                                        | <i>Poa bigelovii</i> Vasey & Scribn.                           | None found                                                                                               |
| POCO        | <i>Poa compressa</i> L.                                                     | <i>Poa compressa</i> L.                                        | None found                                                                                               |
| POFE        | <i>Poa fendleriana</i> (Steud.) Vasey                                       | <i>Poa fendleriana</i> (Steud.) Vasey                          | None found                                                                                               |
| POIN        | <i>Poa interior</i> Rydb.                                                   | <i>Poa interior</i> Rydb.                                      | <i>Poa brevipaniculata</i> Scribn.                                                                       |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i> (Steud.) Vasey               | <i>Poa longiligula</i> Scribn. & Williams                      | None found                                                                                               |
| POSE        | <i>Poa secunda</i> J. Presl                                                 | <i>Poa nevadensis</i> Vasey ex Scribn.                         | None found                                                                                               |
| POPA2       | <i>Poa palustris</i> L.                                                     | <i>Poa palustris</i> L.                                        | None found                                                                                               |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i> (Vasey) A. & D. Love & Kapoor | <i>Poa pattersonii</i> Vasey                                   | None found                                                                                               |
| POPR        | <i>Poa pratensis</i> L.                                                     | <i>Poa pratensis</i> L.                                        | None found                                                                                               |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i> (Torr. & Gray) Ilitis  | <i>Polanisia trachysperma</i> Torr. & Gray                     | None found                                                                                               |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> Gray              | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> Gray | None found                                                                                               |
| POAL4       | <i>Polygala alba</i> Nutt.                                                  | <i>Polygala alba</i> Nutt.                                     |                                                                                                          |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i> Coleman                  | <i>Polygonum amphibium</i> var. <i>stipulaceum</i> Coleman     | <i>Polemonium grande</i> Greene; <i>P. molle</i> Greene; <i>P. pterospermum</i> Nels. & Cockill.         |
| POAV        | <i>Polygonum aviculare</i> L.                                               | <i>Polygonum aviculare</i> L.                                  | <i>Polygonum natans</i> Easton; <i>P. hartwrightii</i> Gray; <i>Persicaria hartwrightii</i> (Gr.) Greene |
| POBI6       | <i>Polygonum bistortoides</i> Pursh                                         | <i>Polygonum bistortoides</i> Pursh                            | <i>Polygonum buxiforme</i> Small                                                                         |
| POCO10      | <i>Polygonum convolvulus</i> L.                                             | <i>Polygonum convolvulus</i> L.                                |                                                                                                          |
| PODO4       | <i>Polygonum douglasii</i> Greene                                           | <i>Polygonum douglasii</i> Greene                              | <i>Biderdykia convolvulua</i> (L.) Dumort.                                                               |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i> Greene                     | <i>Polygonum montanum</i> Small                                | None found                                                                                               |
| POPE3       | <i>Polygonum persicaria</i> L.                                              | <i>Polygonum persicaria</i> L.                                 |                                                                                                          |
| PORA3       | <i>Polygonum ramosissimum</i> Michx.                                        | <i>Polygonum ramosissimum</i> Michx.                           | None found                                                                                               |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i> (Munz) Hickman            | <i>Polygonum sawatchense</i> Small                             | None found                                                                                               |
| POMO5       | <i>Polypogon monspeliensis</i> (L.) Desf.                                   | <i>Polypogon monspeliensis</i> (L.) Desf.                      | None found                                                                                               |
| POAN3       | <i>Populus angustifolia</i> James                                           | <i>Populus angustifolia</i> James                              | None found                                                                                               |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i> (S. Wats.) Eckenwalder       | <i>Populus fremontii</i> var. <i>wislizeni</i> S. Wats.        | None found                                                                                               |

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| USDA Symbol | USDA NRCS PLANTS                                                               | Martin and Hutchins (1980)                                              | Synonyms as Found in References                                                                          |
|-------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| POTR5       | <i>Populus tremuloides</i> Michx.                                              | <i>Populus tremuloides</i> var. <i>aurea</i> (Tidestrom) Daniels        | <i>Populus wislizenii</i> (Wats.) Sarg.                                                                  |
| POOL        | <i>Portulaca oleracea</i> L.                                                   | <i>Portulaca oleracea</i> L.                                            | <i>Populus aurea</i> Tides.                                                                              |
| ARAN7       | <i>Argentina anserina</i> (L.) Rydb.                                           | <i>Potentilla anserina</i> L.                                           | None found                                                                                               |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i> (Rydb.) Keck                  | <i>Potentilla arguta</i> ssp. <i>convallaria</i> (Rydb.) Keck           | <i>Argentina anserina</i> (L.) Rydb.; <i>A. argentea</i> Rydb.                                           |
| POCO13      | <i>Potentilla concinna</i> Richards.                                           | <i>Potentilla concinna</i> Richards.                                    | <i>Potentilla convallaria</i> Rydb.; <i>Dymocaulis convallaria</i> Rydb.                                 |
| POCR4       | <i>Potentilla crinita</i> Gray                                                 | <i>Potentilla crinita</i> Gray                                          | <i>Potentilla bicrenata</i> Rydb.                                                                        |
| PEFL15      | <i>Pentaphylloides floribunda</i> (Pursh) A. Love                              | <i>Potentilla fruticosa</i> auct. non L.                                | None found                                                                                               |
| POHI6       | <i>Potentilla hippiana</i> Lehm.                                               | <i>Potentilla hippiana</i> Lehm.                                        | <i>Dasiphora fruticosa</i> (L.) Rydb.                                                                    |
| PONO3       | <i>Potentilla norvegica</i> L.                                                 | <i>Potentilla norvegica</i> L.                                          | None found                                                                                               |
| POPE8       | <i>Potentilla pennsylvanica</i> L.                                             | <i>Potentilla pennsylvanica</i> L.                                      | <i>Potentilla monspeliensis</i> L.                                                                       |
| POPU9       | <i>Potentilla pulcherrima</i> Lehm.                                            | <i>Potentilla pulcherrima</i> Lehm.                                     | <i>Potentilla strigosa</i> (Pursh) Pall.                                                                 |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i> Gray                           | <i>Potentilla thurberi</i> var. <i>thurberi</i> Gray                    | <i>Potentilla filipes</i> Rydb.                                                                          |
| PRRU        | <i>Primula rusbyi</i> Greene                                                   | <i>Primula rusbyi</i> Greene                                            | None found                                                                                               |
| PRVU        | <i>Prunella vulgaris</i> L.                                                    | <i>Prunella vulgaris</i> L.                                             | None found                                                                                               |
| PRAM        | <i>Prunus americana</i> Marsh.                                                 | <i>Prunus americana</i> Marsh.                                          | None found                                                                                               |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i> (Dougl. ex Hook.) Walp.        | <i>Prunus emarginata</i> var. <i>emarginata</i> (Dougl. ex Hook.) Walp. | None found                                                                                               |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i> (A. Nels.) Sarg.              | <i>Prunus virginiana</i> var. <i>melanocarpa</i> (A. Nels.) Sarg.       | None found                                                                                               |
| PSMO        | <i>Pseudocymopterus montanus</i> (Gray) Coult. & Rose                          | <i>Pseudocymopterus montanus</i> (Gray) Coult. & Rose                   | See Foxx & Tierney (1985)                                                                                |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i> (Beissn.) Franco               | <i>Pseudotsuga menziesii</i> var. <i>glauca</i> (Beissn.) Franco        | See Foxx & Tierney (1985)                                                                                |
| PSTA        | <i>Psilostrophe tagetina</i> (Nutt.) Greene                                    | <i>Psilostrophe tagetina</i> (Nutt.) Greene                             | <i>Pseudotsuga taxifolia</i> var. <i>glauca</i> (Beissner) Sudw.                                         |
| PEHYH       | <i>Pedimelum hypogaeum</i> var. <i>hypogaeum</i> (Nutt. ex Torr. & Gray) Rydb. | <i>Psoralea hypogaea</i> Nutt. ex Torr. & Gray                          | <i>Riddelia tagentina</i> Nutt.                                                                          |
| PSLA3       | <i>Psoralidium lanceolatum</i> (Pursh) Rydb.                                   | <i>Psoralea lanceolata</i> Pursh                                        | <i>Pedimelum hypogaeum</i> (Nutt.) Rydb.                                                                 |
| PSTE5       | <i>Psoralidium tenuiflorum</i> (Pursh) Rydb.                                   | <i>Psoralea tenuiflora</i> Pursh                                        | <i>Psoralea micrantha</i> Gray; <i>Psoralidium lanceolatum</i> (Pursh) Rydb.; <i>P. micranthum</i>       |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> (Benth.) V. Bailey           | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> (Benth.) V. Bailey    | <i>Psoralidium tenuiflorum</i> (Pursh) Rydb.                                                             |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i> Underwood                     | <i>Pteridium aquilinum</i> var. <i>pubescens</i> Underwood              | See Foxx & Tierney (1985)                                                                                |
| PTAN2       | <i>Pterospora andromedea</i> Nutt.                                             | <i>Pterospora andromedea</i> Nutt.                                      | None found                                                                                               |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i> (Pritz.) Zamels                 | <i>Pulsatilla ludoviciana</i> Heller                                    | None found                                                                                               |
| PUTR2       | <i>Purshia tridentata</i> (Pursh) DC.                                          | <i>Purshia tridentata</i> (Pursh) DC.                                   | <i>Pulsatilla hirsutissima</i> (Pursh) Britt.; <i>Anemone patens</i> v. <i>wolfgangiana</i> (Bess.) Koch |
| PYAS        | <i>Pyrola asarifolia</i> Michx.                                                | <i>Pyrola asarifolia</i> Michx.                                         | None found                                                                                               |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                | Martin and Hutchins (1980)                                          | Synonyms as Found in References                                                                             |
|-------------|-----------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| PYCH        | <i>Pyrola chlorantha</i> Sw.                                    | <i>Pyrola chlorantha</i> Sw.                                        |                                                                                                             |
| PYEL        | <i>Pyrola elliptica</i> Nutt.                                   | <i>Pyrola elliptica</i> Nutt.                                       | <i>Pyrola virens</i> Schweig.                                                                               |
| PYMI        | <i>Pyrola minor</i> L.                                          | <i>Pyrola minor</i> L.                                              | None found                                                                                                  |
| PYPI2       | <i>Pyrola picta</i> Sm.                                         | <i>Pyrola picta</i> Sm.                                             | <i>Erxlebenia minor</i> (L.) Rydb.                                                                          |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i> (D. Don) DC.                    | <i>Pyrrhopappus multicaulis</i> DC.                                 |                                                                                                             |
| QUGA        | <i>Quercus gambelii</i> Nutt.                                   | <i>Quercus gambelii</i> Nutt.                                       |                                                                                                             |
| QUGR3       | <i>Quercus grisea</i> Liebm.                                    | <i>Quercus grisea</i> Liebm.                                        | See Foxx & Tierney (1985)                                                                                   |
| QUPU        | <i>Quercus pungens</i> Liebm.                                   | <i>Quercus pungens</i> Liebm.                                       | None found                                                                                                  |
| QUTU2       | <i>Quercus turbinella</i> Greene                                | <i>Quercus turbinella</i> Greene                                    | None found                                                                                                  |
| QUPA4       | <i>Quercus X pauciloba</i> Rydb. (pro sp.)                      | <i>Quercus undulata</i> Torr.                                       | None found                                                                                                  |
| ORSE        | <i>Orthilia secunda</i> (L.) House                              | <i>Ramischia secunda</i> (L.) Garcke                                | <i>Quercus fendleri</i> Liebm.; <i>Q. rydbergiana</i> Cockll.; <i>Q. confusa</i> Woot. & Standl.            |
| RAAB        | <i>Ranunculus abortivus</i> L.                                  | <i>Ranunculus abortivus</i> L.                                      | <i>Pyrola secunda</i> L.                                                                                    |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> Chaix | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i> (Thuill.) DC.   |                                                                                                             |
| RACA4       | <i>Ranunculus cardiophyllus</i> Hook.                           | <i>Ranunculus cardiophyllus</i> Hook.                               | <i>Ranunculus trichophyllus</i> Chaix; <i>Batrachium druetii</i> (F.Schultz) Nyman; <i>B. flaccidum</i>     |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> Fern.     | <i>Ranunculus cymbalaria</i> ssp. <i>saximontanus</i> (Fern.) Thome | None found                                                                                                  |
| RAIN        | <i>Ranunculus inamoenus</i> Greene                              | <i>Ranunculus inamoenus</i> Greene                                  | <i>Halerpestes cymbalaria</i> (Pursh) Greene                                                                |
| RAMA2       | <i>Ranunculus macounii</i> Britt.                               | <i>Ranunculus macounii</i> Britt.                                   | <i>Ranunculus micropelatus</i> (Greene) Rydb.                                                               |
| RAMA3       | <i>Ranunculus macranthus</i> Scheele                            | <i>Ranunculus macranthus</i> Scheele                                | None found                                                                                                  |
| RARA        | <i>Ranunculus ranunculinus</i> Nutt.                            | <i>Ranunculus ranunculinus</i> Nutt.                                |                                                                                                             |
| RARE3       | <i>Ranunculus repens</i> L.                                     | <i>Ranunculus repens</i> L.                                         |                                                                                                             |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i> Nutt.       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i> Nutt.           | None found                                                                                                  |
| RACO3       | <i>Ratibida columnifera</i> (Nutt.) Woot. & Standl.             | <i>Ratibida columnifera</i> (Nutt.) Woot. & Standl.                 |                                                                                                             |
| RATA        | <i>Ratibida tagetes</i> (James) Barnh.                          | <i>Ratibida tagetes</i> (James) Barnh.                              | <i>Lepachys columnaris</i> (Sims) Torr. & Gray; <i>R. c.</i> (S.) D. Don; <i>Rudbeckia columnaris</i> Pursh |
| RHGL        | <i>Rhus glabra</i> L.                                           | <i>Rhus glabra</i> L.                                               | <i>Rudbeckia tagetes</i> James                                                                              |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i> (L.) Kuntze  | <i>Rhus radicans</i> L.                                             | <i>Rhus cismontana</i> Greene; <i>R. glabra</i> var. <i>cismontana</i> (Greene) Daniels                     |
| RHTR        | <i>Rhus trilobata</i> Nutt.                                     | <i>Rhus trilobata</i> Nutt.                                         | <i>Toxicodendron radicans</i> Kuntze; <i>Rhus rydbergii</i> Small; <i>T. rybergii</i> (Small) Greene        |
| RICE        | <i>Ribes cereum</i> Dougl.                                      | <i>Ribes cereum</i> Dougl.                                          | <i>Schmaltzia trilobata</i> (Nutt.) Small                                                                   |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i> Brewer & S. Wats.   | <i>Ribes inebrians</i> Lindl.                                       | None found                                                                                                  |
| RIIN2       | <i>Ribes inerme</i> Rydb.                                       | <i>Ribes inerme</i> Rydb.                                           | None found                                                                                                  |
| RILE        | <i>Ribes leptanthum</i> Gray                                    | <i>Ribes leptanthum</i> Gray                                        | <i>Grossularia inermis</i> (Rydb.) Cov. & Britt.                                                            |
| RIMO2       | <i>Ribes montigenum</i> McClatchie                              | <i>Ribes montigenum</i> McClatchie                                  | <i>Grossularia leptantha</i> (Gray) Cov. & Britt.                                                           |
| RIPI        | <i>Ribes pinetorum</i> Greene                                   | <i>Ribes pinetorum</i> Greene                                       | None found                                                                                                  |
| RIWO        | <i>Ribes wolfii</i> Rothrock                                    | <i>Ribes wolfii</i> Rothrock                                        | <i>Grossularia pinetorum</i> (Greene) Cov. & Britt.                                                         |
| RONE        | <i>Robinia neomexicana</i> Gray                                 | <i>Robinia neomexicana</i> Gray                                     | None found                                                                                                  |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                         | Martin and Hutchins (1980)                                                                | Synonyms as Found in References                                                                       |
|-------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| ROIS2       | <i>Rorippa islandica</i> (Oeder) Borbas                                  | <i>Rorippa islandica</i> (Oeder) Borbas                                                   | <i>Robinia luxurians</i> (Dieck.) Rydb.; <i>R. subvelutina</i> Rydb.                                  |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i> (L.) Hayek                           | <i>Rorippa nasturtium-aquaticum</i> (L.) Hayek                                            | <i>Rorippa palustris</i> (L.) Bess; <i>Radicula terrestris</i> (R. Br.) Woot. & Standl.               |
| ROTE2       | <i>Rorippa teres</i> (Michx.) R. Stuckey                                 | <i>Rorippa obtusa</i> (Nutt.) Britt.                                                      | See Foxx & Tierney (1985)                                                                             |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>femaldiana</i> (Butters & Abbe) Jonsell | <i>Rorippa palustris</i> var. <i>glabra</i> (O.E. Schulz) R. Stuckey                      | <i>Radicula obtusa</i> (Nutt.) Greene                                                                 |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i> (Desv.) Jonsell             | <i>Rorippa palustris</i> ssp. <i>hispida</i> (Desv.) Jonsell                              |                                                                                                       |
| ROSI2       | <i>Rorippa sinuata</i> (Nutt.) A.S. Hitchc.                              | <i>Rorippa sinuata</i> (Nutt.) A.S. Hitchc.                                               |                                                                                                       |
| ROSP4       | <i>Rorippa sphaerocarpa</i> Gray                                         | <i>Rorippa sphaerocarpa</i> Gray                                                          |                                                                                                       |
| ROSY        | <i>Rorippa sylvestris</i> (L.) Bess.                                     | <i>Rorippa sylvestris</i> (L.) Bess.                                                      | <i>Nasturtium sinnatum</i> Nutt.; <i>N. trachycarpum</i> Gray; <i>Radicula sinuata</i> (Nutt.) Greene |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i> (Jepson) Rollins            | <i>Rorippa truncata</i> (Jepson) R. Stuckey                                               | <i>Radicula sylvestris</i> (L.) Druce                                                                 |
| RONU        | <i>Rosa nutkana</i> K. Presl                                             | <i>Rosa nutkana</i> K. Presl                                                              |                                                                                                       |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i> Lindl.                           | <i>Rosa woodsii</i> var. <i>fendleri</i> (Crepin) Rydb.                                   | <i>Rosa melina</i> Greene; <i>R. helleri</i> Greene                                                   |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i> Lindl.                           | <i>Rosa woodsii</i> var. <i>adenosepala</i> (Woot. & Standl.) W.C. Martin & C.R. Hutchins | <i>Rosa arizonica</i>                                                                                 |
| RUPA        | <i>Rubus parviflorus</i> Nutt.                                           | <i>Rubus parviflorus</i> Nutt.                                                            | <i>Rosa fendleri</i> Crepin                                                                           |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i> (Michx.) Focke                 | <i>Rubus strigosus</i> var. <i>arizonicus</i> (Greene) Kearney & Peebles                  | <i>Rubacer parviflorum</i> (Nutt.) Rydb.; <i>Bossekia parviflora</i> (Nutt.) Greene                   |
| RUHI2       | <i>Rudbeckia hirta</i> L.                                                | <i>Rudbeckia hirta</i> L.                                                                 | <i>Rubus arizonicus</i> (Greene) Rydb.                                                                |
| RULA3       | <i>Rudbeckia laciniata</i> L.                                            | <i>Rudbeckia laciniata</i> L.                                                             | <i>Rudbeckia flava</i> Moore                                                                          |
| RUAC3       | <i>Rumex acetosella</i> L.                                               | <i>Rumex acetosella</i> L.                                                                | <i>Rudbeckia ampla</i> A. Nels.; <i>R. latissima</i> Greene                                           |
| RUCR        | <i>Rumex crispus</i> L.                                                  | <i>Rumex crispus</i> L.                                                                   | None found                                                                                            |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i> (Meisn.) C.L. Hitchc.    | <i>Rumex mexicanus</i> Meisn.                                                             | None found                                                                                            |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i> (Greene) Dom              | <i>Rumex occidentalis</i> S. Wats.                                                        | None found                                                                                            |
| RUPA5       | <i>Rumex patientia</i> L.                                                | <i>Rumex patientia</i> L.                                                                 | None found                                                                                            |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i> (Meisn.) C.L. Hitchc.    | <i>Rumex triangulivalvis</i> (Danser) Rech. f.                                            |                                                                                                       |
| SABE2       | <i>Salix bebbiana</i> Sarg.                                              | <i>Salix bebbiana</i> Sarg.                                                               | None found                                                                                            |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i> (Nutt.) E. Murr.                 | <i>Salix caudata</i> (Nutt.) Heller                                                       | None found                                                                                            |
| SAEX        | <i>Salix exigua</i> Nutt.                                                | <i>Salix exigua</i> Nutt.                                                                 | <i>Salix fendlerian</i> Anderss.; <i>S. lasiandra</i> var. <i>caudata</i> (Nutt.) Sudw.               |
| SAIR        | <i>Salix irrorata</i> Anderss.                                           | <i>Salix irrorata</i> Anderss.                                                            | None found                                                                                            |
| SASC        | <i>Salix scouleriana</i> Barratt ex Hook.                                | <i>Salix scouleriana</i> Barratt ex Hook.                                                 | None found                                                                                            |
| SAPR2       | <i>Salvia pratensis</i> L.                                               | <i>Salvia pratensis</i> L.                                                                | None found                                                                                            |
| SARE3       | <i>Salvia reflexa</i> Hornem.                                            | <i>Salvia reflexa</i> Hornem.                                                             |                                                                                                       |
| SASU7       | <i>Salvia subincisa</i> Benth.                                           | <i>Salvia subincisa</i> Benth.                                                            | None found                                                                                            |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                               | Martin and Hutchins (1980)                                           | Synonyms as Found in References                                                                      |
|-------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i> (Gray) McMinn                 | <i>Sambucus melanocarpa</i> Gray                                     |                                                                                                      |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i> L.                               | <i>Sambucus microbotrys</i> Rydb.                                    | None found                                                                                           |
| SAAB        | <i>Sanvitalia abertii</i> Gray                                                 | <i>Sanvitalia abertii</i> Gray                                       | <i>Sambucus racemosa</i> L. var. <i>microbotrys</i> Rydb.                                            |
| SAOF4       | <i>Saponaria officinalis</i> L.                                                | <i>Saponaria officinalis</i> L.                                      | None found                                                                                           |
| SAVE4       | <i>Sarcobatus vermiculatus</i> (Hook.) Torr.                                   | <i>Sarcobatus vermiculatus</i> (Hook.) Torr.                         | None found                                                                                           |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> (Wieg.) Piper           | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> (Wieg.) Piper | <i>Batis vermiculatus</i> Hook.                                                                      |
| SARH2       | <i>Saxifraga rhomboidea</i> Greene                                             | <i>Saxifraga rhomboidea</i> Greene                                   | <i>Saxifraga austromontana</i> Wieg.; <i>Leptasea austromontana</i> (Wieg.) Small                    |
| SCPA        | <i>Schedonnardus paniculatus</i> (Nutt.) Trel.                                 | <i>Schedonnardus paniculatus</i> (Nutt.) Trel.                       | <i>Micranthes rhomboidea</i> (Greene) Small                                                          |
| SCPU        | <i>Schizachne purpurascens</i> (Torr.) Swallen                                 | <i>Schizachne purpurascens</i> (Torr.) Swallen                       | None found                                                                                           |
| SCL112      | <i>Schoenocrambe linearifolia</i> Gray                                         | <i>Schoenocrambe linearifolia</i> Gray                               |                                                                                                      |
| SCBR2       | <i>Scleropogon brevifolius</i> Phil.                                           | <i>Scleropogon brevifolius</i> Phil.                                 |                                                                                                      |
| SCCA11      | <i>Schoenoplectus californicus</i> (C.A. Mey.) Palla                           | <i>Scirpus californicus</i> (C.A. Mey.) Steud.                       | None found                                                                                           |
| SCLA6       | <i>Scorzonera laciniata</i> L.                                                 | <i>Scorzonera laciniata</i> L.                                       |                                                                                                      |
| SECO        | <i>Sedum cockerellii</i> Britt.                                                | <i>Sedum cockerellii</i> Britt.                                      | None found                                                                                           |
| SEAR3       | <i>Senecio arizonicus</i> Greene                                               | <i>Senecio arizonicus</i> Greene                                     | <i>Sedum wootonii</i> Britt.                                                                         |
| SEAT        | <i>Senecio atratus</i> Greene                                                  | <i>Senecio atratus</i> Greene                                        | None found                                                                                           |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i> Gray                            | <i>Senecio bigelovii</i> var. <i>bigelovii</i> Gray                  |                                                                                                      |
| SECR        | <i>Senecio crassulus</i> Gray                                                  | <i>Senecio crassulus</i> Gray                                        | <i>Senecio chloranthus</i> Greene; <i>S. rusbyi</i> Greene                                           |
| SECY        | <i>Senecio cymbalarioides</i> Buek                                             | <i>Senecio cymbalarioides</i> Buek                                   | <i>Senecio lapathifolius</i> Greene                                                                  |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i> Less.                           | <i>Senecio douglasii</i> var. <i>longilobus</i> (Benth.) L. Benson   | <i>Senecio acutidens</i> Rydb.                                                                       |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougallii</i> (Heller) Cronq.            | <i>Senecio eremophilus</i> var. <i>macdougallii</i> (Heller) Cronq.  | <i>Senecio longilobus</i> Benth.; <i>S. filifolius</i> Nutt.; <i>S. f. var. jamesii</i> Torr. & Gray |
| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i> Gray                      | <i>Senecio eurypterus</i> Greenm.                                    | <i>Senecio macdougallii</i> Heller; <i>S. ambrosioides</i> Rydb.                                     |
| SEFE        | <i>Senecio fendleri</i> Gray                                                   | <i>Senecio fendleri</i> Gray                                         |                                                                                                      |
| SEHA5       | <i>Senecio hartianus</i> Heller                                                | <i>Senecio hartianus</i> Heller                                      |                                                                                                      |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> (Greenm. ex Rydb.) Welsh | <i>Senecio multicapitatus</i> Greenm. ex Rydb.                       | <i>Senecio canovirens</i> Rydb.                                                                      |
| SEMU3       | <i>Senecio multilobatus</i> Torr. & Gray ex Gray                               | <i>Senecio multilobatus</i> Torr. & Gray ex Gray                     | None found                                                                                           |
| SENE4       | <i>Senecio neomexicanus</i> Gray                                               | <i>Senecio neomexicanus</i> Gray                                     | None found                                                                                           |
| SEPA5       | <i>Senecio pauperculus</i> Michx.                                              | <i>Senecio pauperculus</i> Michx.                                    | See Foxx & Tierney (1985)                                                                            |
| SEPS2       | <i>Senecio pseud aureus</i> Rydb.                                              | <i>Senecio pseud aureus</i> Rydb.                                    |                                                                                                      |
| SESP3       | <i>Senecio spartioides</i> Torr. & Gray                                        | <i>Senecio spartioides</i> Torr. & Gray                              | <i>Senecio flavulus</i> Greene                                                                       |
| SETR        | <i>Senecio triangularis</i> Hook.                                              | <i>Senecio triangularis</i> Hook.                                    | None found                                                                                           |
| SETR2       | <i>Senecio tridenticulatus</i> Rydb.                                           | <i>Senecio neomexicanus</i> Gray                                     |                                                                                                      |
| SEWE2       | <i>Senecio wernerifolius</i> (Gray) Gray                                       | <i>Senecio wernerifolius</i> (Gray) Gray                             | None found                                                                                           |
| SEWO        | <i>Senecio wootonii</i> Greene                                                 | <i>Senecio wootonii</i> Greene                                       | <i>Senecio pentadontus</i> Greene; <i>S. saxosus</i> Klatt                                           |



## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                             | Martin and Hutchins (1980)                                  | Synonyms as Found in References                                           |
|-------------|--------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------|
| SEPA10      | <i>Setaria parviflora</i> (Poir.) Kerguelen                  | <i>Setaria geniculata</i> Beauv.                            | See Foxx & Tierney (1985)                                                 |
| PEAM4       | <i>Pennisetum americanum</i> (L.) Leeke                      | <i>Setaria lutescens</i> (Weigel) F.T. Hubbard              | None found                                                                |
| SEVU2       | <i>Setaria vulpiseta</i> (Lam.) Roemer & J.A. Schultes       | <i>Setaria macrostachya</i> Kunth                           | <i>Chaetochloa glauca</i> (L.) Scribn.; <i>Setaria glauca</i> (L.) Beauv. |
| SEVI4       | <i>Setaria viridis</i> (L.) Beauv.                           | <i>Setaria viridis</i> (L.) Beauv.                          |                                                                           |
| SIPR        | <i>Sibbaldia procumbens</i> L.                               | <i>Sibbaldia procumbens</i> L.                              |                                                                           |
| SICA3       | <i>Sidalcea candida</i> Gray                                 | <i>Sidalcea candida</i> Gray                                | <i>Chaetochloa viridis</i> (L.) Beauv.                                    |
| SIAN2       | <i>Silene antirrhina</i> L.                                  | <i>Silene antirrhina</i> L.                                 | None found                                                                |
| SINO        | <i>Silene noctiflora</i> L.                                  | <i>Silene noctiflora</i> L.                                 | None found                                                                |
| SISC7       | <i>Silene scouleri</i> Hook.                                 | <i>Silene scouleri</i> Hook.                                | None found                                                                |
| SIAL2       | <i>Sisymbrium altissimum</i> L.                              | <i>Sisymbrium altissimum</i> L.                             | None found                                                                |
| SIIR        | <i>Sisymbrium irio</i> L.                                    | <i>Sisymbrium irio</i> L.                                   | <i>Norta altissima</i> (L.) Britt.                                        |
| SCLI        | <i>Schoenocrambe linifolia</i> (Nutt.) Greene                | <i>Sisymbrium linifolium</i> (Nutt.) Nutt. ex Torr. & Gray  |                                                                           |
| SIDE4       | <i>Sisyrinchium demissum</i> Greene                          | <i>Sisyrinchium demissum</i> Greene                         | <i>Schoenocrambe linifolia</i> (Nutt.) Greene                             |
| SIMO2       | <i>Sisyrinchium montanum</i> Greene                          | <i>Sisyrinchium montanum</i> Greene                         | None found                                                                |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i> (Raf.) Swezey  | <i>Sitanion hystrix</i> (Nutt.) J.G. Sm.                    | None found                                                                |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i> (L.) Link | <i>Smilacina racemosa</i> (L.) Desf.                        | <i>Elymus elymoides</i> Schult.                                           |
| MAST4       | <i>Maianthemum stellatum</i> (L.) Link                       | <i>Smilacina stellata</i> (L.) Desf.                        | <i>Vagnera racemosa</i> (L.) Morong                                       |
| SOAM        | <i>Solanum americanum</i> P. Mill.                           | <i>Solanum americanum</i> P. Mill.                          | <i>Vagnera stellata</i> (L.) Morong                                       |
| SODO        | <i>Solanum douglasii</i> Dunal                               | <i>Solanum douglasii</i> Dunal                              | None found                                                                |
| SOEL        | <i>Solanum elaeagnifolium</i> Cav.                           | <i>Solanum elaeagnifolium</i> Cav.                          | <i>Solanum arizonicum</i> Parish                                          |
| SOJA        | <i>Solanum jamesii</i> Torr.                                 | <i>Solanum jamesii</i> Torr.                                | None found                                                                |
| SOPT3       | <i>Solanum ptychanthum</i> Dunal                             | <i>Solanum nigrum</i> auct. non L.                          | None found                                                                |
| SORO        | <i>Solanum rostratum</i> Dunal                               | <i>Solanum rostratum</i> Dunal                              | <i>Solanum interius</i> Rydb.                                             |
| SOSA        | <i>Solanum sarrachoides</i> Sendtner                         | <i>Solanum sarrachoides</i> Sendtner                        | <i>Androcera rostrata</i> (Dunal) Rydb.                                   |
| SOTR        | <i>Solanum triflorum</i> Nutt.                               | <i>Solanum triflorum</i> Nutt.                              | <i>Solanum villosum</i> Mill.                                             |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i> Torr. & Gray   | <i>Solidago altissima</i> L.                                | None found                                                                |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i> L.         | <i>Solidago canadensis</i> var. <i>canadensis</i> L.        |                                                                           |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> Rydb.  | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> Rydb. | None found                                                                |
| SOMO        | <i>Solidago mollis</i> Bartl.                                | <i>Solidago mollis</i> Bartl.                               |                                                                           |
| SOMU        | <i>Solidago multiradiata</i> Ait.                            | <i>Solidago multiradiata</i> Ait.                           |                                                                           |
| SONE        | <i>Solidago nemoralis</i> Ait.                               | <i>Solidago nemoralis</i> Ait.                              |                                                                           |
| EUOC4       | <i>Euthamia occidentalis</i> Nutt.                           | <i>Solidago occidentalis</i> (Nutt.) Torr. & Gray           | <i>Solidago ciliosa</i> Greene; <i>S. scopulorum</i> (Gray) A. Nels.      |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i> Porter          | <i>Solidago pallida</i> (Porter) Rydb.                      | <i>Euthamia occidentalis</i>                                              |
| SOPA4       | <i>Solidago parryi</i> Gray                                  | <i>Solidago parryi</i> Gray                                 |                                                                           |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i> (Nutt.) Greene   | <i>Solidago petradoria</i> Blake                            |                                                                           |
| OLRIR       | <i>Oliganeuron rigida</i> L.                                 | <i>Solidago rigida</i>                                      |                                                                           |
| SOVE6       | <i>Solidago velutina</i> DC.                                 | <i>Solidago sparsiflora</i> Gray                            | <i>Petradoria pumila</i> Nutt. & Greene                                   |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                           | Martin and Hutchins (1980)                                         | Synonyms as Found in References                                                                                       |
|-------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> Kunth      | <i>Solidago spathulata</i> var. <i>neomexicana</i> (Gray) Cronq.   | <i>Solidago trinervata</i> Greene                                                                                     |
| SOSP2       | <i>Solidago speciosa</i> Nutt.                                             | <i>Solidago speciosa</i> Nutt.                                     |                                                                                                                       |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i> Gray                         | <i>Solidago wrightii</i> var. <i>wrightii</i> Gray                 | See Foxx & Tierney (1985)                                                                                             |
| SOAS        | <i>Sonchus asper</i> (L.) Hill                                             | <i>Sonchus asper</i> (L.) Hill                                     | <i>Solidago bigelovii</i> Gray                                                                                        |
| SOOL        | <i>Sonchus oleraceus</i> L.                                                | <i>Sonchus oleraceus</i> L.                                        | None found                                                                                                            |
| SONU        | <i>Sophora nuttalliana</i> B.L. Turner                                     | <i>Sophora nuttalliana</i> B.L. Turner                             | None found                                                                                                            |
| SONU2       | <i>Sorghastrum nutans</i> (L.) Nash                                        | <i>Sorghastrum nutans</i> (L.) Nash                                | <i>Sophora serica</i> Nutt.                                                                                           |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i> J. & K. Presl                 | <i>Spergularia marina</i> (L.) Griseb.                             | None found                                                                                                            |
| SPAN3       | <i>Sphaeralcea angustifolia</i> (Cav.) G. Don                              | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> Gray         |                                                                                                                       |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i> (E.G. Baker) Kearney         | <i>Sphaeralcea coccinea</i> var. <i>elata</i> (E.G. Baker) Kearney | None found                                                                                                            |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i> Gray                      | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i> Gray              | <i>Malvastrum coccineum</i> (Pursh) Gray; <i>M. elatum</i> (Baker) A. Nels.                                           |
| SPIN2       | <i>Sphaeralcea incana</i> Torr. ex Gray                                    | <i>Sphaeralcea incana</i> Torr. ex Gray                            | <i>Sphaeralcea leiocarpa</i> Woot. & Standl.                                                                          |
| SPIN3       | <i>Sphenopholis intermedia</i> (Rydb.) Rydb.                               | <i>Sphenopholis intermedia</i> (Rydb.) Rydb.                       | None found                                                                                                            |
| SPAI        | <i>Sporobolus airoides</i> (Torr.) Torr.                                   | <i>Sporobolus airoides</i> (Torr.) Torr.                           | <i>Sphenopholis obtusata</i> (Michx.) Scribn. var. <i>major</i> (Torr.) Erdman                                        |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i> (Poir.) Merr.          | <i>Sporobolus asper</i> (Beauv.) Kunth                             | None found                                                                                                            |
| SPCO4       | <i>Sporobolus contractus</i> A.S. Hitchc.                                  | <i>Sporobolus contractus</i> A.S. Hitchc.                          | None found                                                                                                            |
| SPCR        | <i>Sporobolus cryptandrus</i> (Torr.) Gray                                 | <i>Sporobolus cryptandrus</i> (Torr.) Gray                         | <i>Sporobolus strictus</i> Merr.                                                                                      |
| SPNE        | <i>Sporobolus nealleyi</i> Vasey                                           | <i>Sporobolus nealleyi</i> Vasey                                   | None found                                                                                                            |
| SPTE5       | <i>Sporobolus texanus</i> Vasey                                            | <i>Sporobolus texanus</i> Vasey                                    | None found                                                                                                            |
| STPA        | <i>Stachys palustris</i> L.                                                | <i>Stachys palustris</i> L.                                        | None found                                                                                                            |
| STPI        | <i>Stanleya pinnata</i> (Pursh) Britt.                                     | <i>Stanleya pinnata</i> (Pursh) Britt.                             | <i>Stachys scopulorum</i> Greene                                                                                      |
| PSJA2       | <i>Pseudostellaria jamesiana</i> (Torr.) W.A. Weber & R.L. Hartman         | <i>Stellaria jamesiana</i> Torr.                                   | <i>S. arcuata</i> Rydb.                                                                                               |
| STLO        | <i>Stellaria longifolia</i> Muhl. ex Willd.                                | <i>Stellaria longifolia</i> Muhl. ex Willd.                        | <i>Alsine jamesiana</i> (Torr.) Heller, <i>A. curtisii</i> Rydb.                                                      |
| STLO2       | <i>Stellaria longipes</i> Goldie                                           | <i>Stellaria longipes</i> Goldie                                   | <i>Alsine longifolia</i> (Muhl.) Britt.                                                                               |
| STPA4       | <i>Stephanomeria pauciflora</i> (Torr.) A. Nels.                           | <i>Stephanomeria pauciflora</i> (Torr.) A. Nels.                   | <i>Alsine longipes</i> (Goldie) Cov.                                                                                  |
| STTE2       | <i>Stephanomeria tenuifolia</i> (Raf.) Hall                                | <i>Stephanomeria tenuifolia</i> (Raf.) Hall                        | <i>Ptiloria pauciflora</i> (Torr.) Raf.                                                                               |
| ACNE5       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i> (Barkworth & Maze) Barkworth | <i>Stipa columbiana</i> auct. non Macoun                           | <i>Ptiloria tenuifolia</i> (Torr) Raf.; <i>P. ramosa</i> Rydb.; <i>S. wrightii</i> Gray; <i>S. minor</i> (Hook) Nutt. |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i> (Trin. & Rupr.) Barkworth    | <i>Stipa comata</i> Trin. & Rupr.                                  | <i>Stipa minor</i> Scribn.; <i>S. nelsonii</i> Scribn. subsp. <i>dorei</i> Barkworth & Mace                           |
| ACEM4       | <i>Achnatherum eminens</i> (Cav.) Barkworth                                | <i>Stipa eminens</i> Cav.                                          | None found                                                                                                            |
| ACLE9       | <i>Achnatherum lettermanii</i> (Vasey) Barkworth                           | <i>Stipa lettermanii</i> Vasey                                     | None found                                                                                                            |
| HENE5       | <i>Hesperostipa neomexicana</i> (Thurb. ex Coult.) Barkworth               | <i>Stipa neomexicana</i> (Thurb. ex Coult.) Scribn.                | None found                                                                                                            |
| ACRO7       | <i>Achnatherum robustum</i> (Vasey) Barkworth                              | <i>Stipa robusta</i> (Vasey) Scribn.                               | None found                                                                                                            |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                  | Martin and Hutchins (1980)                                                        | Synonyms as Found in References                                                                        |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| STCO6       | <i>Streptanthus cordatus</i> Nutt.                                                | <i>Streptanthus cordatus</i> Nutt.                                                | <i>Stipa vaseyi</i> Scribn.                                                                            |
| STAM2       | <i>Streptopus amplexifolius</i> (L.) DC.                                          | <i>Streptopus amplexifolius</i> (L.) DC.                                          |                                                                                                        |
| FRSP        | <i>Frasera speciosa</i> Dougl. ex Griseb.                                         | <i>Swertia radiata</i> (Kellogg) Kuntze                                           | None found                                                                                             |
| SYOC        | <i>Symphoricarpos occidentalis</i> Hook.                                          | <i>Symphoricarpos occidentalis</i> Hook.                                          | See Foxx & Tierney (1985)                                                                              |
| SYOR2       | <i>Symphoricarpos oreophilus</i> Gray                                             | <i>Symphoricarpos oreophilus</i> Gray                                             | None found                                                                                             |
| SYOR        | <i>Symphoricarpos orbiculatus</i> Moench                                          | <i>Symphoricarpos orbiculatus</i> Moench                                          | None found                                                                                             |
| TAPA3       | <i>Talinum parviflorum</i> Nutt.                                                  | <i>Talinum parviflorum</i> Nutt.                                                  | None found                                                                                             |
| TAGA        | <i>Tamarix gallica</i> L.                                                         | <i>Tamarix gallica</i> L.                                                         | None found                                                                                             |
| TACH2       | <i>Tamarix chinensis</i> Lour.                                                    | <i>Tamarix pentandra</i> Pallas                                                   | None found                                                                                             |
| TALA2       | <i>Taraxacum laevigatum</i> (Willd.) DC.                                          | <i>Taraxacum laevigatum</i> (Willd.) DC.                                          | None found                                                                                             |
| TAOF        | <i>Taraxacum officinale</i> G.H. Weber ex Wiggers                                 | <i>Taraxacum officinale</i> G.H. Weber ex Wiggers                                 | <i>Taraxacum erythrospermum</i> Andr. ex Bess                                                          |
| TECA2       | <i>Tetradymia canescens</i> DC.                                                   | <i>Tetradymia canescens</i> DC.                                                   | <i>Taraxacum mexicanum</i> DC.                                                                         |
| TECA2       | <i>Tetradymia canescens</i> DC.                                                   | <i>Tetradymia canescens</i> var. <i>inermis</i> (Rydb.) Payson                    | <i>Tetradymia inermis</i> Nutt.                                                                        |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i> Engelm. ex Gray                   | <i>Thalictrum fendleri</i> var. <i>fendleri</i> Engelm. ex Gray                   |                                                                                                        |
| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i> (Rydb.) Shinnars            | <i>Thelesperma filifolium</i> var. <i>intermedium</i> (Rydb.) Shinnars            | None found                                                                                             |
| THME        | <i>Thelesperma megapotamicum</i> (Spreng.) Kuntze                                 | <i>Thelesperma megapotamicum</i> (Spreng.) Kuntze                                 |                                                                                                        |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i> (Hook.) Gray                 | <i>Thelesperma trifidum</i> (Poir.) Britt.                                        | <i>Thelesperma gracile</i> (Torr.) Gray; <i>Bidens megapotamicum</i> Spreng.; <i>B. gracilis</i> Torr. |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i> (Nutt.) Endl. ex Walp. | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i> (Nutt.) Endl. ex Walp. | None found                                                                                             |
| THWR        | <i>Thelypodium wrightii</i> Gray                                                  | <i>Thelypodium wrightii</i> Gray                                                  | See Foxx & Tierney (1985)                                                                              |
| THMO6       | <i>Thermopsis montana</i> Nutt.                                                   | <i>Thermopsis montana</i> Nutt.                                                   | <i>Stanleyella wrightii</i> (Gray) Rydb.                                                               |
| THDI4       | <i>Thermopsis divaricarpa</i> A. Nels.                                            | <i>Thermopsis pinetorum</i> Greene                                                | None found                                                                                             |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i> L.                                   | <i>Thlaspi alpestre</i> auct. non L.                                              | <i>Thermopsis divaricata</i> A. Nels.; <i>T. divaricarpus</i> A. Nels.                                 |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i> (J. Presl) J.I. Davis          | <i>Torreyochloa pauciflora</i> (J. Presl) Church                                  | See Foxx & Tierney (1985)                                                                              |
| TOAN        | <i>Townsendia annua</i> Beaman                                                    | <i>Townsendia annua</i> Beaman                                                    |                                                                                                        |
| TOEX        | <i>Townsendia eximia</i> Gray                                                     | <i>Townsendia eximia</i> Gray                                                     | None found                                                                                             |
| TOFO        | <i>Townsendia formosa</i> Greene                                                  | <i>Townsendia formosa</i> Greene                                                  | None found                                                                                             |
| TOIN        | <i>Townsendia incana</i> Nutt.                                                    | <i>Townsendia incana</i> Nutt.                                                    | None found                                                                                             |
| TOEX2       | <i>Townsendia exscapa</i> (Richards.) Porter                                      | <i>Townsendia exscapa</i> (Richards.) Porter                                      | <i>Townsendia arizonica</i> Gray                                                                       |
| TROC        | <i>Tradescantia occidentalis</i> Britt.                                           | <i>Tradescantia occidentalis</i> Britt.                                           |                                                                                                        |
| TRNE        | <i>Tragia nepetifolia</i> Cav.                                                    | <i>Tragia nepetifolia</i> Cav.                                                    | <i>Townsendia sericea</i> Hook.                                                                        |
| TRDU        | <i>Tragopogon dubius</i> Scop.                                                    | <i>Tragopogon dubius</i> Scop.                                                    |                                                                                                        |
| TRPR        | <i>Tragopogon pratensis</i> L.                                                    | <i>Tragopogon pratensis</i> L.                                                    | None found                                                                                             |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> (Gray) C.L. Hitchc.   | <i>Trautvetteria grandis</i> Nutt.                                                | None found                                                                                             |
| TRTE        | <i>Tribulus terrestris</i> L.                                                     | <i>Tribulus terrestris</i> L.                                                     | <i>Trautvetteria media</i> Greene                                                                      |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                      | Martin and Hutchins (1980)                                                            | Synonyms as Found in References                                                        |
|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| TRICH9      | <i>Trichostema</i> ssp. <i>L.</i>                                                     | <i>Trichostema</i> ssp. <i>L.</i>                                                     |                                                                                        |
| ERPU8       | <i>Erioneuron pulchellum</i> (Kunth) Tateoka                                          | <i>Tridens pulchellus</i> (Kunth) A.S. Hitchc.                                        | None found                                                                             |
| TRDA2       | <i>Trifolium dasyphyllum</i> Torr. & Gray                                             | <i>Trifolium dasyphyllum</i> Torr. & Gray                                             | <i>Triodia pulchella</i> H. B. K.; <i>Erioneuron pulchellum</i> (H. B. K.) Tateoka     |
| TRHY        | <i>Trifolium hybridum</i> L.                                                          | <i>Trifolium hybridum</i> L.                                                          | <i>Trifolium stenolobum</i> Rydb.                                                      |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i> (Greene) J. Gillett                   | <i>Trifolium lacerum</i> Greene                                                       | None found                                                                             |
| TRPR2       | <i>Trifolium pratense</i> L.                                                          | <i>Trifolium pratense</i> L.                                                          | None found                                                                             |
| TRCA5       | <i>Trifolium campestre</i> Schreb.                                                    | <i>Trifolium procumbens</i> L. 1755, non 1753                                         | None found                                                                             |
| TRRE3       | <i>Trifolium repens</i> L.                                                            | <i>Trifolium repens</i> L.                                                            | None found                                                                             |
| TRPE4       | <i>Triodanis perfoliata</i> (L.) Nieuwl.                                              | <i>Triodanis perfoliata</i> (L.) Nieuwl.                                              | None found                                                                             |
| TRMO5       | <i>Trisetum montanum</i> Vasey                                                        | <i>Trisetum montanum</i> Vasey                                                        | <i>Specularia perfoliata</i> (L.) A. DC.                                               |
| TRSP2       | <i>Trisetum spicatum</i> (L.) Richter                                                 | <i>Trisetum spicatum</i> (L.) Richter                                                 | None found                                                                             |
| TYLA        | <i>Typha latifolia</i> L.                                                             | <i>Typha latifolia</i> L.                                                             | None found                                                                             |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i> (Ait.) Seland.                              | <i>Urtica dioica</i> var. <i>procera</i> (Muhl. ex Willd.) Weddell                    | None found                                                                             |
| URGR        | <i>Urtica gracilentia</i> Greene                                                      | <i>Urtica gracilentia</i> Greene                                                      | None found                                                                             |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i> (Ait.) Seland.                              | <i>Urtica gracilis</i> Ait.                                                           | None found                                                                             |
| VAMY2       | <i>Vaccinium myrtillus</i> L.                                                         | <i>Vaccinium myrtillus</i> L.                                                         | None found                                                                             |
| VAAR3       | <i>Valeriana arizonica</i> Gray                                                       | <i>Valeriana arizonica</i> Gray                                                       | <i>Vaccinium oreophilum</i> Rydb.                                                      |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i> Rydb.                                | <i>Valeriana capitata</i> ssp. <i>acutiloba</i> (Rydb.) F.G. Mey.                     | <i>Valeriana ovata</i> ; Rydb.; <i>V. acutiloba</i> var. <i>ovata</i> (Rydb.) A. Nels. |
| VECA2       | <i>Veratrum californicum</i> Dur.                                                     | <i>Veratrum californicum</i> Dur.                                                     | <i>Valeriana acutiloba</i> Rydb.                                                       |
| VETH        | <i>Verbascum thapsus</i> L.                                                           | <i>Verbascum thapsus</i> L.                                                           | <i>Veratrum speciosum</i> Rydb.                                                        |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> (Nutt.) Nutt.              | <i>Verbena bipinnatifida</i> Nutt.                                                    | None found                                                                             |
| VEBR        | <i>Verbena bracteata</i> Lag. & Rodr.                                                 | <i>Verbena bracteata</i> Lag. & Rodr.                                                 | None found                                                                             |
| VEBR        | <i>Verbena bracteata</i> Lag. & Rodr.                                                 | <i>Verbena imbricata</i> Woot. & Standl.                                              | See Foxx & Tierney (1985)                                                              |
| VEMA        | <i>Verbena macdougallii</i> Heller                                                    | <i>Verbena macdougallii</i> Heller                                                    | None found                                                                             |
| GLWR        | <i>Glandularia wrightii</i> (Gray) Umber                                              | <i>Verbena wrightii</i> Gray                                                          | None found                                                                             |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> (Cav.) Benth. & Hook. f. ex Gray | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> (Cav.) Benth. & Hook. f. ex Gray | None found                                                                             |
| VEAM2       | <i>Veronica americana</i> Schwein. ex Benth.                                          | <i>Veronica americana</i> Schwein. ex Benth.                                          | <i>Ximensia encelioides</i> Cav.                                                       |
| VEAR        | <i>Veronica arvensis</i> L.                                                           | <i>Veronica arvensis</i> L.                                                           | None found                                                                             |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i> (Kunth) Pennell                      | <i>Veronica peregrina</i> var. <i>xalapensis</i> (Kunth) Pennell                      | None found                                                                             |
| VESE        | <i>Veronica serpyllifolia</i> L.                                                      | <i>Veronica serpyllifolia</i> L.                                                      | <i>Veronica xalapensis</i> H. B. K.                                                    |
| VEWO2       | <i>Veronica wormskjoldii</i> Roemer & J.A. Schultes                                   | <i>Veronica wormskjoldii</i> Roemer & J.A. Schultes                                   | <i>Veronica tenella</i> All.; <i>V. humifusa</i> Dickson                               |
| VILE        | <i>Viburnum lentago</i> L.                                                            | <i>Viburnum lentago</i> L.                                                            | None found                                                                             |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i> Muhl. ex Willd.                          | <i>Vicia americana</i> ssp. <i>americana</i> Muhl. ex Willd.                          | None found                                                                             |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i> (Hook.) C.R. Gunn                            | <i>Vicia americana</i> var. <i>linearis</i> (Nutt.) S. Wats.                          | <i>Vicia dissitifolia</i> (Nutt.) Rydb.                                                |

## NOMENCLATURE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                         | Martin and Hutchins (1980)                                               | Synonyms as Found in References                                                                       |
|-------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i> (Hook.) C.R. Gunn               | <i>Vicia americana</i> var. <i>minor</i> Hook.                           | See Foxx & Tierney (1985)                                                                             |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i> Nutt.                   | <i>Vicia exigua</i> Nutt.                                                | None found                                                                                            |
| VILE3       | <i>Vicia leucophaea</i> Greene                                           | <i>Vicia leucophaea</i> Greene                                           |                                                                                                       |
| VIPU2       | <i>Vicia pulchella</i> Kunth                                             | <i>Vicia pulchella</i> Kunth                                             |                                                                                                       |
| VICO        | <i>Viguiera cordifolia</i> Gray                                          | <i>Viguiera cordifolia</i> Gray                                          | None found                                                                                            |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i> Nutt.                | <i>Viguiera multiflora</i> (Nutt.) Blake                                 | <i>Viguiera texana</i> Torr. and Gray                                                                 |
| VIAD        | <i>Viola adunca</i> Sm.                                                  | <i>Viola adunca</i> Sm.                                                  | <i>Heliomeris multiflora</i> Nutt.; <i>Cymnolomia multiflora</i> (Nutt.) Benth & Hook.                |
| VICA4       | <i>Viola canadensis</i> L.                                               | <i>Viola canadensis</i> L.                                               | <i>Viola montanensis</i> Rydb.; <i>V. puberula</i> (Wats.) Howell; <i>V. retroscabra</i> Greene       |
| VISO        | <i>Viola sororia</i> Willd.                                              | <i>Viola nephrophylla</i> Greene                                         | <i>Viola muriculata</i> Greene; <i>V. canadensis</i> var. <i>neomexicana</i> (Greene) House           |
| VIPE2       | <i>Viola pedatifida</i> G. Don                                           | <i>Viola pedatifida</i> G. Don                                           | None found                                                                                            |
| VIAR2       | <i>Vitis arizonica</i> Engelm.                                           | <i>Vitis arizonica</i> Engelm.                                           | None found                                                                                            |
| VIVU        | <i>Vitis vulpina</i> L.                                                  | <i>Vitis vulpina</i> L.                                                  | None found                                                                                            |
| WOOR        | <i>Woodsia oregana</i> D.C. Eat.                                         | <i>Woodsia oregana</i> D.C. Eat.                                         |                                                                                                       |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i> (P. Mill.) Torr. & Gray | <i>Xanthium strumarium</i> var. <i>canadense</i> (P. Mill.) Torr. & Gray | None found                                                                                            |
| YUAN2       | <i>Yucca angustissima</i> Engelm. ex Trel.                               | <i>Yucca angustissima</i> Engelm. ex Trel.                               | See Foxx & Tierney (1985)                                                                             |
| YUBA        | <i>Yucca baccata</i> Torr.                                               | <i>Yucca baccata</i> Torr.                                               | None found                                                                                            |
| YUGL        | <i>Yucca glauca</i> Nutt.                                                | <i>Yucca glauca</i> Nutt.                                                | None found                                                                                            |
| ZIGR        | <i>Zinnia grandiflora</i> Nutt.                                          | <i>Zinnia grandiflora</i> Nutt.                                          | <i>Y. angustifolia</i> Nutt.                                                                          |
| ZIEL2       | <i>Zigadenus elegans</i> Pursh                                           | <i>Zigadenus elegans</i> Pursh                                           | <i>Zygadenus coloradoensis</i> Rydb.; <i>Z. dilatus</i> Greene; <i>Anticlea elegans</i> (Pursh) Rydb. |

### Key for heading acronyms and abbreviations:

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).



COMMON NAMES



Goldeneye

## COMMON NAMES

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Common Name from NRCS PLANTS         | Common Name from Southwestern Texts    |
|--------------|------------------------------------------------------|-------------------------------------------------|--------------------------------------|----------------------------------------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | white fir                            | white fir                              |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | subalpine fir                        | corkbark fir; subalpine fir            |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    | New Mexico maple                     | New Mexico maple; Rocky Mountain maple |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        | boxelder maple                       | western boxelder; boxelder maple       |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> | western yarrow                       | western yarrow                         |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     | Columbian monkshood                  | monkshood                              |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    | red baneberry                        | western baneberry                      |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      | jointed goatgrass                    | jointed goatgrass                      |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   | Bill Williams' Mountain giant hyssop | giant hyssop                           |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       | false agoseris                       | mountain-dandelion                     |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      | orange agoseris                      | orange mountain dandelion              |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       | pale agoseris                        | smooth mountain dandelion              |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   | false agoseris                       | pale mountain dandelion                |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    | tall hairy agrimony                  | tall agrimony                          |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        | roadside agrimony                    | agrimony                               |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   | thickspick wheatgrass                | downy wheatgrass                       |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     | desert wheatgrass                    | Russian wheatgrass                     |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      | Alaskan wheatgrass                   | wheatgrass                             |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   | false quackgrass                     | false quackgrass                       |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         | quackgrass                           | quackgrass                             |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        | western wheatgrass                   | western wheatgrass                     |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    | slender wheatgrass                   | bearded wheatgrass                     |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   | slender wheatgrass                   | slender wheatgrass                     |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            | redtop                               | redtop                                 |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         | spike bentgrass                      | spike bent                             |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      | Idaho bentgrass                      | Idaho redtop                           |
| AGPE         | <i>Agrostis perennans</i>                            | <i>Agrostis perennans</i>                       | upland bentgrass                     | autum bent                             |
| AGSC5        | <i>Agrostis scabra</i>                               | <i>Agrostis scabra</i>                          | rough bentgrass                      | rough bent                             |
| POVI9        | <i>Polypogon viridis</i>                             | <i>Agrostis semiverticillata</i>                | beardless rabbitsfoot grass          | water bent                             |
| AGST2        | <i>Agrostis stolonifera</i>                          | <i>Agrostis stolonifera</i>                     | creeping bentgrass                   | red top                                |
| AIAL         | <i>Ailanthus altissima</i>                           | <i>Ailanthus altissima</i>                      | tree of heaven                       | tree-of-heaven                         |
| ALCEO        | <i>Allium cernuum</i> var. <i>obtusum</i>            | <i>Allium cernuum</i> var. <i>obtusum</i>       | nodding onion                        | Rocky Mountain nodding onion           |
| ALGE         | <i>Allium geyeri</i>                                 | <i>Allium geyeri</i>                            | Geyer's onion                        | Geyer onion                            |

\* A key for heading acronyms and abbreviations is on the last page of this table.



### COMMON NAMES CON'T

| USDA Symbol            | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                        | Common Name from NRCS PLANTS                             | Common Name from Southwestern Texts          |
|------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|----------------------------------------------|
| ALMA4                  | <i>Allium macropetalum</i>                                                             | <i>Allium macropetalum</i>                        | largeflower wild onion                                   | mesa onion                                   |
| ALTE                   | <i>Allium textile</i>                                                                  | <i>Allium textile</i>                             | textile onion                                            | wild onion                                   |
| ALOB2                  | <i>Alnus oblongifolia</i>                                                              | <i>Alnus oblongifolia</i>                         | Arizona alder                                            | New Mexico alder                             |
| ALINT                  | <i>Alnus incana</i> ssp. <i>tenuifolia</i>                                             | <i>Alnus tenuifolia</i>                           | thinleaf alder                                           | thinleaf alder; mountain alder               |
| ALAE                   | <i>Alopecurus aequalis</i>                                                             | <i>Alopecurus aequalis</i>                        | short-awn foxtail                                        | short-awn foxtail                            |
| ALRO3                  | <i>Alcea rosea</i>                                                                     | <i>Althaea rosea</i>                              | hollyhock                                                | hollyhock mallow                             |
| AMAL                   | <i>Amaranthus albus</i>                                                                | <i>Amaranthus albus</i>                           | prostrate pigweed                                        | white amaranth                               |
| AMAL;<br>AMBL          | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>                      | prostrate pigweed; mat amaranth                          | tumble; prostrate pigweed                    |
| AMHY                   | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                        | slim amaranth                                            | pigweed; green amaranth                      |
| AMHY2                  | <i>Amaranthus hypochondriacus</i> L.                                                   | <i>Amaranthus leucocarpus</i>                     | Prince-of-Wales feather                                  | love-lies-bleeding                           |
| AMPA                   | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                         | carelessweed                                             | carelessweed redroot                         |
| AMPO2                  | <i>Amaranthus powellii</i> S. Wats.                                                    | <i>Amaranthus powellii</i>                        | Powell's amaranth                                        | green amaranth                               |
| AMRE                   | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>                     | redroot amaranth                                         | green amaranth; green pigweed; rough pigweed |
| AMAR;<br>AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                         | sandhill amaranth; Bigelow's amaranth; Watson's amaranth | Torrey pigweed                               |
| AMAR2                  | <i>Ambrosia artemisiifolia</i>                                                         | <i>Ambrosia artemisiifolia</i>                    | annual ragweed                                           | common ragweed; bitterweed                   |
| AMPS                   | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>                      | Cuman ragweed                                            | western ragweed                              |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier bakeri</i>                         | Utah serviceberry                                        | serviceberry                                 |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier oreophila</i>                      | Utah serviceberry                                        | mountain serviceberry                        |
| AMPU5                  | <i>Amelanchier pumila</i>                                                              | <i>Amelanchier polycarpa</i>                      | dwarf serviceberry                                       | cluster serviceberry                         |
| AMUT                   | <i>Amelanchier utahensis</i>                                                           | <i>Amelanchier utahensis</i>                      | Utah serviceberry                                        | Utah serviceberry                            |
| AMCA6                  | <i>Amorpha canescens</i>                                                               | <i>Amorpha canescens</i>                          | leadplant                                                | leadplant amorpha                            |
| AMFR                   | <i>Amorpha fruticosa</i>                                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i> | desert indigobush                                        | narrow-leaved false indigo; false indigobush |
| AMNA                   | <i>Amorpha nana</i>                                                                    | <i>Amorpha nana</i>                               | dwarf indigobush                                         | fragrant false indigo                        |
| ANAR                   | <i>Anagallis arvensis</i>                                                              | <i>Anagallis arvensis</i>                         | scarlet pimpernel                                        | poorman's weatherglass                       |
| ANMA                   | <i>Anaphalis margaritacea</i>                                                          | <i>Anaphalis margaritacea</i>                     | western pearly everlasting                               | pearly everlasting                           |
| BOBAB                  | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>                                  | <i>Andropogon barbinodis</i>                      | cane bluestem                                            | cane beardgrass                              |
| ANGE                   | <i>Andropogon gerardii</i>                                                             | <i>Andropogon gerardii</i>                        | big bluestem                                             | big bluestem                                 |
| ANHA                   | <i>Andropogon hallii</i>                                                               | <i>Andropogon hallii</i>                          | sand bluestem                                            | sand bluestem                                |
| BOSA                   | <i>Bothriochloa saccharoides</i>                                                       | <i>Andropogon saccharoides</i>                    | silver bluestem                                          | silver beardgrass                            |
| SCSCS2                 | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>                                   | <i>Andropogon scoparius</i>                       | little bluestem                                          | little bluestem                              |
| BOSP3                  | <i>Bothriochloa springfieldii</i>                                                      | <i>Andropogon springfieldii</i>                   | Springfield's beardgrass                                 | springfield bluestem                         |
| BOWR2                  | <i>Bothriochloa wrightii</i>                                                           | <i>Andropogon wrightii</i>                        | Wright's beardgrass                                      | Wright beardgrass                            |



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| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Common Name from NRCS PLANTS  | Common Name from Southwestern Texts          |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|-------------------------------|----------------------------------------------|
| ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>       | <i>Androsace septentrionalis</i> var. <i>subulifera</i>       | pygmyflower rock-jasmine      | western rock-jasmine                         |
| ANCY        | <i>Anemone cylindrica</i>                                     | <i>Anemone cylindrica</i>                                     | candle anemone                | candle anemone                               |
| ANPI2       | <i>Angelica pinnata</i>                                       | <i>Angelica pinnata</i>                                       | smallleaf angelica            | angelica                                     |
| ANCR2       | <i>Anoda cristata</i>                                         | <i>Anoda cristata</i> var. <i>digitata</i>                    | crested anoda                 | anoda                                        |
| ANMA5       | <i>Antennaria marginata</i>                                   | <i>Antennaria marginata</i>                                   | whitemargin pussytoes         | pussytoes                                    |
| ANPA4       | <i>Antennaria parvifolia</i>                                  | <i>Antennaria parvifolia</i>                                  | smallleaf pussytoes           | pussytoes                                    |
| ANRO2       | <i>Antennaria rosea</i>                                       | <i>Antennaria rosea</i>                                       | rosy pussytoes                | pussytoes                                    |
| ANRO3       | <i>Antennaria rosulata</i>                                    | <i>Antennaria rosulata</i>                                    | Kaibab pussytoes              | pussytoes                                    |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               | plains dozedaisy              | aphanostephus                                |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> | spreading dogbane             | spreading dogbane                            |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            | Indian hemp                   | Indian hemp                                  |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            | intermediate dogbane          | Indian hemp                                  |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     | Colorado blue columbine       | Colorado columbine; Rocky Mountain columbine |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   | golden columbine              | yellow columbine                             |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   | western red columbine         | red columbine                                |
| AQTR        | <i>Aquilegia tritemata</i>                                    | <i>Aquilegia tritemata</i>                                    | Chiricahua Mountain columbine | red columbine                                |
| ARDI2       | <i>Arabis X divaricarpa</i>                                   | <i>Arabis divaricarpa</i>                                     | spreadingpod rockcress        | rockcress                                    |
| ARDR        | <i>Arabis drummondii</i>                                      | <i>Arabis drummondii</i>                                      | Drummond's rockcress          | Drummond rockcress                           |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | Fendler's rockcress           | Fendler rockcress                            |
| ARGL        | <i>Arabis glabra</i>                                          | <i>Arabis glabra</i>                                          | tower rockcress               | tower mustard                                |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                  | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                  | creamflower rockcress         | hairy rockcress                              |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | second rockcress              | rockcress                                    |
| ARPE2       | <i>Arabis perennans</i>                                       | <i>Arabis perennans</i>                                       | perennial rockcress           | rockcress                                    |
| ARRA        | <i>Aralia racemosa</i>                                        | <i>Aralia racemosa</i>                                        | American spikenard            | American spikenard                           |
| ARDI3       | <i>Arceuthobium divaricatum</i>                               | <i>Arceuthobium divaricatum</i>                               | pinyon dwarf mistletoe        | dwarf mistletoe                              |
| ARDO        | <i>Arceuthobium douglasii</i>                                 | <i>Arceuthobium douglasii</i>                                 | Douglas fir dwarf mistletoe   | dwarf mistletoe                              |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i>         | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodum</i>       | pineland dwarf mistletoe      | dwarf mistletoe                              |
| ARPU5       | <i>Arctostaphylos pungens</i>                                 | <i>Arctostaphylos pungens</i>                                 | pointleaf manzanita           | pointleaf manzanita                          |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                                | <i>Arctostaphylos uva-ursi</i>                                | kinnikinnick                  | bearberry; kinnikinnick                      |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>                 | <i>Arenaria confusa</i>                                       | spreading sandwort            | sandwort                                     |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               | Fendler's sandwort            | Fendler's sandwort                           |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 | Fendler's sandwort            | Fendler's sandwort                           |
| MOMA3       | <i>Moehringia macrophylla</i>                                 | <i>Arenaria macrophylla</i>                                   | largeleaf sandwort            | sandwort                                     |
| ARAD        | <i>Aristida adscensionis</i>                                  | <i>Aristida adscensionis</i>                                  | six-weeksthree-awn            | six-weeksthree-awn                           |

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| USDA Symbol | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                             | Common Name from NRCS PLANTS | Common Name from Southwestern Texts |
|-------------|------------------------------------------------------|--------------------------------------------------------|------------------------------|-------------------------------------|
| ARAR6       | <i>Aristida arizonica</i>                            | <i>Aristida arizonica</i>                              | Arizona three-awn            | Arizona three-awn                   |
| ARHA3       | <i>Aristida havardii</i>                             | <i>Aristida barbata</i>                                | Harvard's three-awn          | Harvard three-awn                   |
| ARDI5       | <i>Aristida divaricata</i>                           | <i>Aristida divaricata</i>                             | poverty three-awn            | poverty three-awn                   |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>     | <i>Aristida fendleriana</i>                            | Fendler's three-awn          | Fendler three-awn                   |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>       | <i>Aristida longiseta</i>                              | Fendler three-awn            | red three-awn                       |
| ARPU9       | <i>Aristida purpurea</i>                             | <i>Aristida purpurea</i>                               | purple three-awn             | purple three-awn                    |
| ARBI3       | <i>Artemisia bigelovii</i>                           | <i>Artemisia bigelovii</i>                             | Bigelow's sagebrush          | Bigelow sagebrush                   |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>     | <i>Artemisia campestris</i> subsp. <i>pacifica</i>     | Pacific wormwood             | sagebrush                           |
| ARCA13      | <i>Artemisia cana</i>                                | <i>Artemisia cana</i>                                  | silver sagebrush             | silvery sagebrush; hoary sagebrush  |
| ARCA14      | <i>Artemisia carruthii</i>                           | <i>Artemisia carruthii</i>                             | Carruth's sagewort           | wormwood                            |
| ARDR4       | <i>Artemisia dracunculus</i>                         | <i>Artemisia dracunculus</i>                           | wormwood                     | false tarragon                      |
| ARFI2       | <i>Artemisia filifolia</i>                           | <i>Artemisia filifolia</i>                             | sand sagebrush               | sand sagebrush                      |
| ARFR3       | <i>Artemisia franserioides</i>                       | <i>Artemisia franserioides</i>                         | ragweed sagebrush            | ragweed sagebrush                   |
| ARFR4       | <i>Artemisia frigida</i>                             | <i>Artemisia frigida</i>                               | fringed sagewort             | estafiata; fringed sagebrush        |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>      | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>      | white sagebrush              | wormwood                            |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> | foothill sagewort            | Louisiana wormwood                  |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>    | Mexican white sagebrush      | wormwood                            |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>     | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>    | white sagebrush              | wormwood                            |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>    | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>     | white sagebrush              | wormwood                            |
| ARTR2       | <i>Artemisia tridentata</i>                          | <i>Artemisia tridentata</i>                            | big sagebrush                | big sagebrush; basin sagebrush      |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>       | <i>Asclepias asperula</i> subsp. <i>asperula</i>       | spider milkweed              | antelope horn                       |
| ASEN        | <i>Asclepias engelmanniana</i>                       | <i>Asclepias engelmanniana</i>                         | Engelmann's milkweed         | Engelmann's milkweed                |
| ASIN14      | <i>Asclepias involucrata</i>                         | <i>Asclepias involucrata</i>                           | dwarf milkweed               | poison milkweed; dwarf milkweed     |
| ASMA        | <i>Asclepias macrotis</i>                            | <i>Asclepias macrotis</i>                              | longhood milkweed            | milkweed                            |
| ASSP        | <i>Asclepias speciosa</i>                            | <i>Asclepias speciosa</i>                              | showy milkweed               | showy milkweed                      |
| ASSU2       | <i>Asclepias subverticillata</i>                     | <i>Asclepias subverticillata</i>                       | whorled milkweed             | poison milkweed                     |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>       | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>     | butterfly milkweed           | butterflyweed                       |
| ASVI        | <i>Asclepias viridiflora</i>                         | <i>Asclepias viridiflora</i>                           | green milkweed               | green milkweed                      |
| ASOF        | <i>Asparagus officinalis</i>                         | <i>Asparagus officinalis</i>                           | garden asparagus             | garden asparagus                    |
| ASTR2       | <i>Asplenium trichomanes</i>                         | <i>Asplenium trichomanes</i>                           | maidenhair spleenwort        | maidenhair spleenwort               |
| ASER3       | <i>Aster ericoides</i>                               | <i>Aster ericoides</i>                                 | heath aster                  | aster                               |
| ASFE        | <i>Aster fendleri</i>                                | <i>Aster fendleri</i>                                  | Fendler's aster              | Fendler aster                       |
| ASFO        | <i>Aster foliaceus</i>                               | <i>Aster foliaceus</i>                                 | alpine leafybract aster      | leafy-bracted aster                 |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>         | <i>Aster glaucodes</i> var. <i>glaucodes</i>           | gray aster                   | aster                               |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>       | <i>Aster hesperius</i>                                 | Siskiyow aster               | marsh aster                         |
| ASLA5       | <i>Aster laevis</i>                                  | <i>Aster laevis</i>                                    | smooth aster                 | smooth aster                        |
| ASNO        | <i>Aster novae-angliae</i>                           | <i>Aster novae-angliae</i>                             | New England aster            | New England aster                   |
| ASOC        | <i>Aster occidentalis</i>                            | <i>Aster occidentalis</i>                              | western aster                | aster                               |
| ALPA14      | <i>Almutaster pauciflorus</i>                        | <i>Aster pauciflorus</i>                               |                              | aster                               |

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| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                                | Common Name from NRCS PLANTS | Common Name from Southwestern Texts               |
|-------------|-------------------------------------------------------------|-----------------------------------------------------------|------------------------------|---------------------------------------------------|
| ASPR2       | <i>Aster praealtus</i>                                      | <i>Aster praealtus</i>                                    | willowleaf aster             | tall aster                                        |
| ASAG2       | <i>Astragalus agrestis</i>                                  | <i>Astragalus agrestis</i>                                | purple milkvetch             | field milkvetch                                   |
| ASAM5       | <i>Astragalus amphioxys</i>                                 | <i>Astragalus amphioxys</i>                               | crescent milkvetch           | crescent milkvetch                                |
| ASBI2       | <i>Astragalus bisulcatus</i>                                | <i>Astragalus bisulcatus</i>                              | two-grooved milkvetch        | two-grooved milkvetch                             |
| ASCR2       | <i>Astragalus crassicaupus</i>                              | <i>Astragalus crassicaupus</i>                            | ground-plume milkvetch       | ground-plume milkvetch                            |
| ASEM2       | <i>Astragalus emoryanus</i>                                 | <i>Astragalus emoryanus</i>                               | Emory's milkvetch            | Emory milkvetch                                   |
| ASFL2       | <i>Astragalus flexuosus</i>                                 | <i>Astragalus flexuosus</i>                               | flexile milkvetch            | flexile milkvetch                                 |
| ASGR3       | <i>Astragalus gracilis</i>                                  | <i>Astragalus gracilis</i>                                | slender milkvetch            | slender milkvetch                                 |
| ASHU2       | <i>Astragalus humistratus</i>                               | <i>Astragalus humistratus</i>                             | groundcover milkvetch        | ground milkvetch                                  |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>      | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     | New Mexico spiny milkvetch   | New Mexico kentrophyta                            |
| ASLE8       | <i>Astragalus lentiginosus</i>                              | <i>Astragalus lentiginosus</i>                            | specklepod milkvetch         | specklepod locoweed                               |
| ASLO3       | <i>Astragalus lonchocarpus</i>                              | <i>Astragalus lonchocarpus</i>                            | rushy milkvetch              | rush milkvetch                                    |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i>   | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | Missouri milkvetch           | Missouri milkvetch                                |
| ASMO7       | <i>Astragalus mollissimus</i>                               | <i>Astragalus mollissimus</i>                             | woolly milkvetch             | woolly locoweed                                   |
| ASPR5       | <i>Astragalus praelongus</i>                                | <i>Astragalus praelongus</i>                              | stinking milkvetch           | stinking milkvetch                                |
| ASSH3       | <i>Astragalus shortianus</i>                                | <i>Astragalus shortianus</i>                              | Short's milkvetch            | Short's milkvetch                                 |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>         | <i>Athyrium filix-femina</i> var. <i>californicum</i>     | subarctic ladyfern           | lady fern                                         |
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                                 | four-wing saltbush           | four-wing saltbush                                |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                                    | spear saltbush               | saltbush                                          |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                                    | slimlobe bahia               | bahia                                             |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                                     | ragleaf bahia                | yellow ragweed; bahia; field chrysanthemum        |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                                  | manyflower false threadleaf  | New Mexico Bahia                                  |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                                 | basindaisy                   | plains bahia                                      |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                               | desert marigold              | desert marigold                                   |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                                | fivehorn smotherweed         | smotherweed                                       |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                              | American sloughgrass         | American sloughgrass                              |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                                  | Colorado barberry            | Colorado barberry                                 |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                                    | Oregon grape                 | creeping mahonia; creeping barberry; oregon grape |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                                 | lyre leaf greeneyes          | lyre leaf; berlandiera                            |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                      | cutleaf water parsnip        | water parsnip                                     |
| BEPL        | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                               | White River coraldrops       | kittentails                                       |
| BEOC2       | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                                | water birch                  | western water-birch                               |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                                   | Bigelow's beggarticks        | water beggarticks                                 |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>             | spanish-needles              | Spanish needles                                   |

## COMMON NAMES CON'T

| USDA Symbol | USDA NRCS PLANTS                  | Martin and Hutchins (1980)                          | Common Name from NRCS PLANTS | Common Name from Southwestern Texts |
|-------------|-----------------------------------|-----------------------------------------------------|------------------------------|-------------------------------------|
| BICE        | <i>Bidens cernua</i>              | <i>Bidens cernua</i>                                | nodding beggartick           | nodding beggartick                  |
| BITR        | <i>Bidens tripartita</i>          | <i>Bidens cosmosa</i>                               | three-lobed beggarticks      | tufted beggarticks                  |
| BIFR        | <i>Bidens frondosa</i>            | <i>Bidens frondosa</i>                              | devil's beggartick           | sticktight                          |
| BLTR        | <i>Blepharoneuron tricholepis</i> | <i>Blepharoneuron tricholepis</i>                   | pine dropseed                | pine dropseed; hairy dropseed       |
| BOCO2       | <i>Boerhavia coulteri</i>         | <i>Boerhaavia coulteri</i>                          | Coulter's spiderling         | spiderling                          |
| BOMU        | <i>Botrychium multifidum</i>      | <i>Botrychium multifidum</i> subsp. <i>coulteri</i> | leathery grape fern          | grape fern                          |
| BOAR        | <i>Bouteloua aristidoides</i>     | <i>Bouteloua aristidoides</i>                       | needle grama                 | needlegrass                         |
| BOBA2       | <i>Bouteloua barbata</i>          | <i>Bouteloua barbata</i>                            | six-weeks grama              | six-weeks grama                     |
| BOCU        | <i>Bouteloua curtipendula</i>     | <i>Bouteloua curtipendula</i>                       | side-oats grama              | side-oats grama                     |
| BOER4       | <i>Bouteloua eriopoda</i>         | <i>Bouteloua eriopoda</i>                           | black grama                  | black gramma                        |
| BOGR2       | <i>Bouteloua gracilis</i>         | <i>Bouteloua gracilis</i>                           | blue grama                   | blue gramma                         |
| BOH12       | <i>Bouteloua hirsuta</i>          | <i>Bouteloua hirsuta</i>                            | hairy grama                  | hairy grama                         |
| BOS12       | <i>Bouteloua simplex</i>          | <i>Bouteloua simplex</i>                            | matted grama                 | mat grama                           |
| BRJU        | <i>Brassica juncea</i>            | <i>Brassica juncea</i>                              | India mustard                | Indian mustard; chinese mustard     |
| BRNI        | <i>Brassica nigra</i>             | <i>Brassica nigra</i>                               | black mustard                | black mustard                       |
| BRBE        | <i>Brickellia betonicifolia</i>   | <i>Brickellia betonicaefolia</i>                    | betonyleaf brickellbush      | bricklebush                         |
| BRBR2       | <i>Brickellia brachyphylla</i>    | <i>Brickellia brachyphylla</i>                      | plumed brickellbush          | bricklebush                         |
| BRCA3       | <i>Brickellia californica</i>     | <i>Brickellia californica</i>                       | California brickellbush      | California bricklebush              |
| BRFE        | <i>Brickellia fendleri</i>        | <i>Brickellia fendleri</i>                          | Fendler's brickellbush       | Fendler's bricklebush               |
| BRGR        | <i>Brickellia grandiflora</i>     | <i>Brickellia grandiflora</i>                       | tasselflower brickellbush    | bricklebush                         |
| BRAN        | <i>Bromus anomalus</i>            | <i>Bromus anomalus</i>                              | nodding brome                | nodding brome                       |
| BRCA6       | <i>Bromus catharticus</i>         | <i>Bromus catharticus</i>                           | rescue grass                 | rescue grass                        |
| BRC12       | <i>Bromus ciliatus</i>            | <i>Bromus ciliatus</i>                              | fringed brome                | fringed brome                       |
| BRFR2       | <i>Bromus frondosus</i>           | <i>Bromus frondosus</i>                             | weeping brome                | weeping brome                       |
| BRIN2       | <i>Bromus inermis</i>             | <i>Bromus inermis</i>                               | smooth brome                 | smooth brome; hungarian brome       |
| BRJA        | <i>Bromus japonicus</i>           | <i>Bromus japonicus</i>                             | Japanese brome               | Japanese brome                      |
| BRLA6       | <i>Bromus lanatipes</i>           | <i>Bromus lanatipes</i>                             | woolly brome                 | nodding brome                       |
| BRMA4       | <i>Bromus marginatus</i>          | <i>Bromus marginatus</i>                            | mountain brome               | mountain brome                      |
| BRKA2       | <i>Bromus kalmii</i>              | <i>Bromus purgans</i>                               | arctic brome                 | Canada brome                        |
| BRTE        | <i>Bromus tectorum</i>            | <i>Bromus tectorum</i>                              | cheatgrass                   | cheatgrass; downy chess             |
| BUDA        | <i>Buchloe dactyloides</i>        | <i>Buchloe dactyloides</i>                          | buffalograss                 | buffalo grass                       |
| CAGU        | <i>Calochortus gunnisonii</i>     | <i>Calochortus gunnisonii</i>                       | Gunnison's mariposa lily     | Gunnison mariposa lily              |
| CANU3       | <i>Calochortus nuttallii</i>      | <i>Calochortus nuttallii</i>                        | sego lily                    | sego lily                           |
| CAHA14      | <i>Calylophus hartwegii</i>       | <i>Calylophus hartwegii</i>                         | Hartweg's sundrops           | yellow primrose; sundrops           |
| CABU        | <i>Calypso bulbosa</i>            | <i>Calypso bulbosa</i>                              | fairyslipper orchid          | fairy slipper, calypso              |
| CAM12       | <i>Camelina microcarpa</i>        | <i>Camelina microcarpa</i>                          | little-pod false flax        | little-seed false flax              |
| CAPA10      | <i>Campanula parryi</i>           | <i>Campanula parryi</i>                             | Parry's bellflower           | Parry bellflower                    |
| CARO2       | <i>Campanula rotundifolia</i>     | <i>Campanula rotundifolia</i>                       | bluebell bellflower          | harebell; bluebell                  |
| CABU2       | <i>Capsella bursa-pastoris</i>    | <i>Capsella bursa-pastoris</i>                      | shepherd's purse             | shepherd's purse                    |

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| USDA Symbol | USDA NRCS PLANTS                                 | Martin and Hutchins (1980)                       | Common Name from NRCS PLANTS  | Common Name from Southwestern Texts        |
|-------------|--------------------------------------------------|--------------------------------------------------|-------------------------------|--------------------------------------------|
| CACO6       | <i>Cardamine cordifolia</i>                      | <i>Cardamine cordifolia</i>                      | heartleaf bittercress         | heartleaf bittercress                      |
| CADR        | <i>Cardaria draba</i>                            | <i>Cardaria draba</i>                            | pepperweed whitetop           | hoary cress                                |
| CANU4       | <i>Carduus nutans</i>                            | <i>Carduus nutans</i>                            | nodding plumeless thistle     | musk-thistle                               |
| CAAQ        | <i>Carex aquatilis</i>                           | <i>Carex aquatilis</i>                           | water sedge                   | water sedge                                |
| CABE3       | <i>Carex bella</i>                               | <i>Carex bella</i>                               | showy sedge                   | sedge                                      |
| CABO2       | <i>Carex bolanderi</i>                           | <i>Carex bolanderi</i>                           | Bolander's sedge              | Bolander sedge                             |
| CABR10      | <i>Carex brevior</i>                             | <i>Carex brevior</i>                             | fescue sedge                  | Brevior sedge                              |
| CACA11      | <i>Carex canescens</i>                           | <i>Carex canescens</i>                           | silvery sedge                 | silvery sedge                              |
| CADO2       | <i>Carex douglasii</i>                           | <i>Carex douglasii</i>                           | Douglas' sedge                | Douglas sedge                              |
| CADU6       | <i>Carex duriuscula</i>                          | <i>Carex eleocharis</i>                          | needleleaf sedge              | sedge                                      |
| CAMI7       | <i>Carex microptera</i>                          | <i>Carex festivella</i>                          | small-wing sedge              | meadow sedge                               |
| CAFO3       | <i>Carex foenea</i>                              | <i>Carex foenea</i>                              | dry-spike sedge               | alpine sedge                               |
| CAGE        | <i>Carex geophila</i>                            | <i>Carex geophila</i>                            | White Mountain sedge          | sedge                                      |
| CAHY4       | <i>Carex hystericina</i>                         | <i>Carex hystericina</i>                         | bottlebrush sedge             | bottlebrush sedge                          |
| CAIN11      | <i>Carex interior</i>                            | <i>Carex interior</i>                            | inland sedge                  | inland sedge                               |
| CALA30      | <i>Carex lanuginosa</i>                          | <i>Carex lanuginosa</i>                          | woolly sedge                  | marsh sege                                 |
| CANE2       | <i>Carex nebraskensis</i>                        | <i>Carex nebraskensis</i>                        | Nebraska sedge                | Nebraska sedge                             |
| CAOC2       | <i>Carex occidentalis</i>                        | <i>Carex occidentalis</i>                        | western sedge                 | Rocky Mountain sedge                       |
| CAPR5       | <i>Carex praegracilis</i>                        | <i>Carex praegracilis</i>                        | clustered field sedge         | sedge                                      |
| CASC11      | <i>Carex scoparia</i>                            | <i>Carex scoparia</i>                            | broom sedge                   | broom sedge                                |
| CAST5       | <i>Carex stipata</i>                             | <i>Carex stipata</i>                             | owlfruit sedge                | sedge                                      |
| CAXE        | <i>Carex xerantica</i>                           | <i>Carex xerantica</i>                           | whitescale sedge              | stiff sedge                                |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>    | <i>Castilleja confusa</i>                        |                               | paintbrush                                 |
| CAIN14      | <i>Castilleja integra</i>                        | <i>Castilleja integra</i>                        | wholeleaf Indian paintbrush   | Indian paintbrush; foothills paintbrush    |
| CALI4       | <i>Castilleja linariifolia</i>                   | <i>Castilleja linariaefolia</i>                  | Wyoming Indian paintbrush     | paintbrush                                 |
| CALI5       | <i>Castilleja lineata</i>                        | <i>Castilleja lineata</i>                        | marshmeadow Indian paintbrush | paintbrush; yellow paintbrush              |
| CAMI12      | <i>Castilleja miniata</i>                        | <i>Castilleja miniata</i>                        | scarlet Indian paintbrush     | scarlet paintbrush                         |
| CAMI13      | <i>Castilleja minor</i>                          | <i>Castilleja minor</i>                          | lesser Indian paintbrush      | Indian paintbrush; painted cup             |
| CARH4       | <i>Castilleja rhexiifolia</i>                    | <i>Castilleja rhexifolia</i>                     | splitleaf Indian paintbrush   | splitleaf paintbrush                       |
| CEFE        | <i>Ceanothus fendleri</i>                        | <i>Ceanothus fendleri</i>                        | Fendler's ceanothus           | buckbrush; deerbrier; deerbrush            |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>   | <i>Celtis reticulata</i>                         | netleaf hackberry             | netleaf hackberry; sugarberry; palo blanco |
| CEEC        | <i>Cenchrus echinatus</i>                        | <i>Cenchrus echinatus</i>                        | southern sandbur              | sandbur                                    |
| CEIN4       | <i>Cenchrus incertus</i>                         | <i>Cenchrus pauciflorus</i>                      |                               | field sandbur                              |
| CECA3       | <i>Centaurium calycosum</i>                      | <i>Centaurium calycosum</i>                      | Arizona centaury              | centaury                                   |
| CEAR4       | <i>Cerastium arvense</i>                         | <i>Cerastium arvense</i>                         | field chickweed               | meadow chickweed                           |
| CEBR3       | <i>Cerastium brachypodium</i>                    | <i>Cerastium brachypodium</i>                    | shortstalk chickweed          | mouse-ear chickweed                        |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>    | <i>Cerastium vulgatum</i>                        | big chickweed                 | common mousies ears chickweed              |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i> | <i>Cercocarpus montanus</i> var. <i>montanus</i> | birchleaf mountain mahogany   | adder-leaf mountain mahogany               |

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|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------|-------------------------------------|
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>                                  | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>          | hairy mountain mahogany      | mountain mahogany                   |
| CHCO        | <i>Chamaesaracha coniodes</i>                                                          | <i>Chamaesaracha coniodes</i>                                  | gray five eyes               | chamaesaracha                       |
| CHCO2       | <i>Chamaesaracha coronopus</i>                                                         | <i>Chamaesaracha coronopus</i>                                 | greenleaf five eyes          | chamaesaracha                       |
| CHFE        | <i>Cheilanthes feei</i>                                                                | <i>Cheilanthes feei</i>                                        | slender lip fern             | Fee's lip fern                      |
| CHFE2       | <i>Cheilanthes fendleri</i>                                                            | <i>Cheilanthes fendleri</i>                                    | Fendler's lip fern           | Fendler's lip fern                  |
| CHTO2       | <i>Cheilanthes tomentosa</i>                                                           | <i>Cheilanthes tomentosa</i>                                   | woolly lip fern              | Tomentosa lip fern                  |
| CHEA        | <i>Cheilanthes eatonii</i>                                                             | <i>Cheilanthes eatonii</i>                                     | Eaton's lip fern             | Eaton's lip fern                    |
| CHAL6       | <i>Chenopodium albescens</i>                                                           | <i>Chenopodium albescens</i>                                   | pale goosefoot               | goosefoot                           |
| CHAL7       | <i>Chenopodium album</i>                                                               | <i>Chenopodium album</i>                                       | lambsquarters                | lamb's quarters                     |
| CHBE4       | <i>Chenopodium berlandieri</i>                                                         | <i>Chenopodium berlandieri</i>                                 | pitseed goosefoot            | goosefoot                           |
| CHCA4       | <i>Chenopodium capitatum</i>                                                           | <i>Chenopodium capitatum</i>                                   | blite goosefoot              | strawberry blite                    |
| CHCY        | <i>Chenopodium cycloides</i>                                                           | <i>Chenopodium cycloides</i>                                   | sandhill goosefoot           | goosefoot                           |
| CHDE        | <i>Chenopodium desiccatum</i>                                                          | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>           | aridland goosefoot           | goosefoot                           |
| CHPR5       | <i>Chenopodium pratericola</i>                                                         | <i>Chenopodium desiccatum</i> var. <i>leptophyllodes</i>       | desert goosefoot             | goosefoot                           |
| CHFR3       | <i>Chenopodium fremontii</i>                                                           | <i>Chenopodium fremontii</i>                                   | Fremont's goosefoot          | Fremont's goosefoot                 |
| CHSI2       | <i>Chenopodium simplex</i>                                                             | <i>Chenopodium gigantospermum</i>                              | mapleleaf goosefoot          | maple-leaved goosefoot              |
| CHGL3       | <i>Chenopodium glaucum</i>                                                             | <i>Chenopodium glaucum</i>                                     | oakleaf goosefoot            | oak-leaved goosefoot                |
| CHGR2       | <i>Chenopodium graveolens</i>                                                          | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>         | fetid goosefoot              | goosefoot                           |
| CHIN2       | <i>Chenopodium incanum</i>                                                             | <i>Chenopodium incanum</i>                                     | mealy goosefoot              | goosefoot                           |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                                        | <i>Chenopodium leptophyllum</i>                                | narrowleaf goosefoot         | goosefoot                           |
| CHRU        | <i>Chenopodium rubrum</i>                                                              | <i>Chenopodium rubrum</i>                                      | red goosefoot                | red goosefoot                       |
| CHWA        | <i>Chenopodium watsonii</i>                                                            | <i>Chenopodium watsonii</i>                                    | Watson's goosefoot           | goosefoot                           |
| CHUM        | <i>Chimaphila umbellata</i>                                                            | <i>Chimaphila umbellata</i>                                    | pipsissiwa                   | pipsissewa                          |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         | feather fingergrass          | feather fingergrass                 |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      | hairy goldenaster            | golden aster                        |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         | rubber rabbitbrush           | Bigelow rabbitbrush                 |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      | rubber rabbitbrush           | Rabbitbrush                         |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           |                              | Parry's rabbitbrush                 |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             |                              | Parry's rabbitbrush                 |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> | green rabbitbrush            | sticky rabbitbrush                  |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        | western water hemlock        | western water-hemlock               |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          | small enchanter's nightshade | Dwarf's enchanter's nightshade      |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    | New Mexico thistle           | New Mexico thistle                  |

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|-------------|---------------------------------------------------|-------------------------------------------------------|------------------------------|------------------------------------------------|
| CIOC2       | <i>Cirsium ochrocentrum</i>                       | <i>Cirsium ochrocentrum</i>                           | yellowspine thistle          | Santa Fe thistle                               |
| CIPA5       | <i>Cirsium pallidum</i>                           | <i>Cirsium pallidum</i>                               | pale thistle                 | yellow thistle; pale thistle                   |
| CIPA        | <i>Cirsium parryi</i>                             | <i>Cirsium parryi</i>                                 | Parry's thistle              | Parry thistle                                  |
| CICA10      | <i>Cirsium calcareum</i>                          | <i>Cirsium pulchellum</i>                             | Cainville thistle            | thistle                                        |
| CIUN        | <i>Cirsium undulatum</i>                          | <i>Cirsium undulatum</i>                              | wavyleaf thistle             | wavyleaf thistle                               |
| CIVU        | <i>Cirsium vulgare</i>                            | <i>Cirsium vulgare</i>                                | bullthistle                  | bullthistle                                    |
| CLDR        | <i>Clematis drummondii</i>                        | <i>Clematis drummondii</i>                            | Drummond's clematis          | Drummond clematis                              |
| CLLI2       | <i>Clematis ligusticifolia</i>                    | <i>Clematis ligusticifolia</i>                        | western white clematis       | western virgin's bower                         |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i> | <i>Clematis pseudoalpina</i>                          | rock clematis                | Rocky Mountain clematis                        |
| CLSE        | <i>Cleome serrulata</i>                           | <i>Cleome serrulata</i>                               | Rocky Mountain beeplant      | Rocky Mountain bee-plant; beeweed; spider-weed |
| CLVU        | <i>Clinopodium vulgare</i>                        | <i>Clinopodium vulgare</i>                            | wild basil                   | wild basil                                     |
| COLI2       | <i>Collomia linearis</i>                          | <i>Collomia linearis</i>                              | narrowleaf mountain trumpet  | collomia                                       |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>     | <i>Comandra pallida</i>                               | pale bastard toadflax        | bastard toadflax                               |
| CODI4       | <i>Commelina dianthifolia</i>                     | <i>Commelina dianthifolia</i>                         | birdbill dayflower           | dayflower                                      |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>     | <i>Conopholis mexicana</i>                            | Mexican squawroot            | Mexican squawroot                              |
| COAR4       | <i>Convolvulus arvensis</i>                       | <i>Convolvulus arvensis</i>                           | field bindweed               | field bindweed                                 |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>       | <i>Convolvulus sepium</i>                             | hedge false bindweed         | hedge bindweed                                 |
| COCA5       | <i>Conyza canadensis</i>                          | <i>Conyza canadensis</i>                              | Canadian horseweed           | horseweed                                      |
| COMA4       | <i>Corallorrhiza maculata</i>                     | <i>Corallorrhiza maculata</i>                         | summer coralroot             | spotted coralroot                              |
| COST        | <i>Corallorrhiza striata</i>                      | <i>Corallorrhiza striata</i>                          | hooded coralroot             | striped coralroot                              |
| COWR2       | <i>Cordylanthus wrightii</i>                      | <i>Cordylanthus wrightii</i>                          | Wright's bird's beak         | Wright clubflower                              |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i>  | <i>Coreopsis cardaminefolia</i>                       | golden tickseed              | tickseed                                       |
| COTI3       | <i>Coreopsis tinctoria</i>                        | <i>Coreopsis tinctoria</i>                            | golden tickseed              | calliopsis                                     |
| COSA        | <i>Coriandrum sativum</i>                         | <i>Coriandrum sativum</i>                             | Chinese parsley              | corlander                                      |
| COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i>         | <i>Cornus stolonifera</i>                             | red-osier dogwood            | red-osier dogwood; cornel wood                 |
| COAU2       | <i>Corydalis aurea</i>                            | <i>Corydalis aurea</i>                                | scrambled eggs               | golden smoke                                   |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>    | <i>Coryphantha vivipara</i>                           | spiny star                   | pincushion cactus                              |
| COPA12      | <i>Cosmos parviflorus</i>                         | <i>Cosmos parviflorus</i>                             | southwestern cosmos          | cosmos                                         |
| CRER        | <i>Crataegus erythropoda</i>                      | <i>Crataegus erythropoda</i>                          | cerro hawthorn               | hawthorn                                       |
| CRTE4       | <i>Croton texensis</i>                            | <i>Croton texensis</i>                                | Texas croton                 | doveweed                                       |
| CRFE3       | <i>Cryptantha fendleri</i>                        | <i>Cryptantha fendleri</i>                            | sanddune catseye             | Fendler hiddenflower                           |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>     | <i>Cryptantha jamesii</i>                             | James' catseye               | James hiddenflower                             |
| CRMI5       | <i>Cryptantha minima</i>                          | <i>Cryptantha minima</i>                              | little catseye               | hiddenflower                                   |
| CRAC3       | <i>Cryptogramma acrostichoides</i>                | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> | American rockbrake           | mountain parsley                               |
| CUFO        | <i>Cucurbita foetidissima</i>                     | <i>Cucurbita foetidissima</i>                         | Missouri gourd               | buffalo gourd; coyote melon                    |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i>    | <i>Cuscuta campestris</i>                             | five-angled dodder           | dodder                                         |
| CUUM        | <i>Cuscuta umbellata</i>                          | <i>Cuscuta umbellata</i>                              | flatglobe dodder             | dodder                                         |
| CYBU        | <i>Cymopterus bulbosus</i>                        | <i>Cymopterus bulbosus</i>                            | bulbous springparsley        | water-parsnip                                  |

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| USDA Symbol | USDA NRCS PLANTS                               | Martin and Hutchins (1980)                            | Common Name from NRCS PLANTS  | Common Name from Southwestern Texts      |
|-------------|------------------------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------------|
| CYDA        | <i>Cynodon dactylon</i>                        | <i>Cynodon dactylon</i>                               | bermuda grass                 | Bermuda grass                            |
| CYEC        | <i>Cynosurus echinatus</i>                     | <i>Cynosurus echinatus</i>                            | bristly dogstailgrass         | awned dogtail                            |
| CYSQ        | <i>Cyperus squarrosus</i>                      | <i>Cyperus aristatus</i>                              | bearded flatsedge             | sedge                                    |
| MISE3       | <i>Mitreola sessilifolia</i>                   | <i>Cyperus esculentus</i>                             | swamp hornpod                 | yellow nutsedge                          |
| CYFE2       | <i>Cyperus fendlerianus</i>                    | <i>Cyperus fendlerianus</i>                           | Fendler's flatsedge           | Fendler flatsedge                        |
| CYBI6       | <i>Cyperus bipartitus</i>                      | <i>Cyperus rivularis</i>                              | slender flatsedge             | river nutgrass                           |
| CYPU10      | <i>Cypripedium pubescens</i>                   | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    | greater yellow lady's slipper | yellow lady's slipper                    |
| CYFR2       | <i>Cystopteris fragilis</i>                    | <i>Cystopteris fragilis</i>                           | brittle bladderfern           | brittle fern                             |
| DAGL        | <i>Dactylis glomerata</i>                      | <i>Dactylis glomerata</i>                             | orchardgrass                  | orchard grass                            |
| DABR        | <i>Dalea brachystachya</i>                     | <i>Dalea brachystachys</i>                            | Fort Bowie prairieclover      | indigobush                               |
| DAFO        | <i>Dalea formosa</i>                           | <i>Dalea formosa</i>                                  | featherplume                  | Fendler indigobush                       |
| DALE3       | <i>Dalea leporina</i>                          | <i>Dalea leporina</i>                                 | foxtail prairieclover         | indigobush                               |
| DANA        | <i>Dalea nana</i>                              | <i>Dalea nana</i>                                     | dwarf prairieclover           | dwarf indigobush                         |
| DAPO3       | <i>Dalea polygonoides</i>                      | <i>Dalea polygonoides</i>                             | six weeks prairieclover       | six-weeks indigobush                     |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>     | <i>Dalea terminalis</i>                               | woolly prairieclover          | spreading indigobush                     |
| DAIN        | <i>Danthonia intermedia</i>                    | <i>Danthonia intermedia</i>                           | timber oatgrass               | timber oatgrass                          |
| DAPA2       | <i>Danthonia parryi</i>                        | <i>Danthonia parryi</i>                               | Parry's danthonia             | Parry danthonia; Parry oatgrass          |
| DASP2       | <i>Danthonia spicata</i>                       | <i>Danthonia spicata</i>                              | poverty danthonia             | poverty oatgrass                         |
| DAWR2       | <i>Datura wrightii</i>                         | <i>Datura meteloides</i>                              | sacred thornapple             | Indian-apple; sacred datura; jimson weed |
| DEOC        | <i>Delphinium X occidentale</i>                | <i>Delphinium occidentale</i>                         | duncecap larkspur             | tall purple larkspur                     |
| DEWO        | <i>Delphinium wootonii</i>                     | <i>Delphinium virescens</i> subsp. <i>wootonii</i>    | Organ Mountain larkspur       | white larkspur                           |
| DECE        | <i>Deschampsia cespitosa</i>                   | <i>Deschampsia caespitosa</i>                         | tufted hairgrass              | tufted hairgrass                         |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>   | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>        | blunt tansymustard            | desert tansy mustard                     |
| DEPI        | <i>Descurainia pinnata</i>                     | <i>Descurainia pinnata</i>                            | western tansymustard          | tansy mustard                            |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>   | <i>Descurainia richardsonii</i>                       | mountain tansymustard         | tansy mustard                            |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>   | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>  | mountain tansymustard         | western tansy mustard                    |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>  | <i>Descurainia richardsonii</i> subsp. <i>procera</i> | mountain tansymustard         | western tansy mustard                    |
| DESO2       | <i>Descurainia sophia</i>                      | <i>Descurainia sophia</i>                             | herb sophia                   | tansy mustard                            |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>  | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i> | mountain tansymustard         | western tansy mustard                    |
| DISP        | <i>Distichlis spicata</i>                      | <i>Distichlis spicata</i>                             | inland saltgrass              | inland saltgrass                         |
| DISP        | <i>Distichlis spicata</i>                      | <i>Distichlis stricta</i>                             | inland saltgrass              | desert saltgrass                         |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                 | <i>Dithyrea wislizenii</i>                            | touristplant                  | spectacle pod                            |
| DOAL        | <i>Dodecatheon alpinum</i>                     | <i>Dodecatheon alpinum</i>                            | alpine shootingstar           | shooting star                            |
| DOPU        | <i>Dodecatheon pulchellum</i>                  | <i>Dodecatheon pulchellum</i>                         | darkthroat shootingstar       | shooting star; southern shooting star    |
| DRAU        | <i>Draba aurea</i>                             | <i>Draba aurea</i> var. <i>aurea</i>                  | golden whitlowgrass           | whitlow grass                            |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i> | <i>Draba helleriana</i> var. <i>helleriana</i>        | Heller's whitlowgrass         | whitlow grass                            |
| DRRE        | <i>Draba rectifructa</i>                       | <i>Draba rectifructa</i>                              | mountain whitlowgrass         | whitlow grass                            |
| DRRE2       | <i>Draba reptans</i>                           | <i>Draba reptans</i>                                  | Carolina whitlowgrass         | whitlow grass                            |
| DRSP        | <i>Draba spectabilis</i>                       | <i>Draba spectabilis</i>                              | showy whitlowgrass            | whitlow grass                            |



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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------|-------------------------------------------------|
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     | male fern                    | male-fern                                       |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         | fetid marigold               | fetid marigold; dogweed                         |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        | five needle pricklyleaf      | dogweed                                         |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    | pinkflower hedgehog cactus   | Fendler hedgehog cactus                         |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | kingcup cactus               | strawberry hedgehog cactus; claret-cup hedgehog |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   | scarlet hedgehog cactus      | hedgehog cactus                                 |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | nylon hedgehog cactus        | green pitaya; green-flowered hedgehog           |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    | barnyardgrass                | barnyard grass                                  |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   | Russian olive                | Russian olive                                   |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  | common spikerush             | pale spikerush                                  |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        | Canada wildrye               | canada wild rye                                 |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           | blue wildrye                 | blue wild rye                                   |
| ELV13       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        | Virginia wildrye             | Virginia wild rye                               |
| EPTO        | <i>Ephedra Torreyana</i>                                        | <i>Ephedra Torreyana</i>                                        | Torrey's jointfir            | Torrey joint-fir                                |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                      | <i>Ephedra viridis</i> var. <i>viridis</i>                      | Mormon tea                   | green joint-fir; mormon tea                     |
| EPAN2       | <i>Epilobium angustifolium</i>                                  | <i>Epilobium angustifolium</i>                                  | fireweed                     | fireweed                                        |
| EPCI        | <i>Epilobium ciliatum</i>                                       | <i>Epilobium ciliatum</i>                                       | hairywillowherb              | willowweed                                      |
| EPOR2       | <i>Epilobium oregonense</i>                                     | <i>Epilobium oregonense</i>                                     | slimstem willowweed          | willowweed                                      |
| EPBR3       | <i>Epilobium brachycarpum</i>                                   | <i>Epilobium paniculatum</i>                                    | autumn willowweed            | autumn willowweed                               |
| EPGI        | <i>Epipactis gigantea</i>                                       | <i>Epipactis gigantea</i>                                       | giant helleborine            | helleborine                                     |
| EQAR        | <i>Equisetum arvense</i>                                        | <i>Equisetum arvense</i>                                        | field horsetail              | smooth horsetail                                |
| EQHY        | <i>Equisetum hyemale</i>                                        | <i>Equisetum hiemale</i>                                        | scouringrush horsetail       | scouring-rush                                   |
| EQLA        | <i>Equisetum laevigatum</i>                                     | <i>Equisetum laevigatum</i>                                     | smooth horsetail             | smooth horsetail                                |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>              | <i>Eragrostis arida</i>                                         | desert lovegrass             | desert lovegrass                                |
| ERBA2       | <i>Eragrostis barrelieri</i>                                    | <i>Eragrostis barrelieri</i>                                    | Mediterranean lovegrass      | European lovegrass                              |
| ERCI        | <i>Eragrostis cilianensis</i>                                   | <i>Eragrostis cilianensis</i>                                   | stinkgrass                   | stinKing lovegrass                              |
| ERCU2       | <i>Eragrostis curvula</i>                                       | <i>Eragrostis curvula</i>                                       | weeping lovegrass            | weeping lovegrass                               |
| ERHY        | <i>Eragrostis hypnoides</i>                                     | <i>Eragrostis hypnoides</i>                                     | teal lovegrass               | creeping lovegrass                              |
| ERPE        | <i>Eragrostis pectinacea</i>                                    | <i>Eragrostis pectinacea</i>                                    | tufted lovegrass             | caroline lovegrass                              |
| ERTR3       | <i>Eragrostis trichodes</i>                                     | <i>Eragrostis trichodes</i>                                     | sand lovegrass               | sand lovegrass                                  |
| ERCA4       | <i>Erigeron canus</i>                                           | <i>Erigeron canus</i>                                           | hoary fleabane               | hoary fleabane                                  |
| ERDI4       | <i>Erigeron divergens</i>                                       | <i>Erigeron divergens</i>                                       | spreading fleabane           | spreading fleabane                              |
| EREL9       | <i>Erigeron elatior</i>                                         | <i>Erigeron elatior</i>                                         | tall fleabane                | fleabane                                        |
| ERFL        | <i>Erigeron flagellaris</i>                                     | <i>Erigeron flagellaris</i>                                     | trailing fleabane            | trailing fleabane                               |

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| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | beautiful fleabane            | fleabane                            |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus viscidus</i>                  | beautiful fleabane            | itchy fleabane                      |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              | trailing fleabane             | fleabane                            |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  | subalpine fleabane            | fleabane                            |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          | Philadelphia fleabane         | common fleabane                     |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            | Vreeland's erigeron           | fleabane                            |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinnus</i>         | <i>Erigeron pumilus</i> subsp. <i>concinoides</i>       | Navajo fleabane               | fleabane                            |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              | rhizome fleabane              | ciliate fleabane                    |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 | one stem fleabane             | fleabane                            |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | aspen fleabane                | fleabane                            |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            | three-nerve fleabane          | fleabane                            |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                | spruce-fir fleabane           | fleabane                            |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               | Utah fleabane                 | fleabane                            |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                | early bluetop fleabane        | fleabane                            |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               | tapertip cupgrass             | southwestern cupgrass               |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             | Abert's buckwheat             | wildbuckwheat                       |
| ERAL4       | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 | wingedbuckwheat               | winged wild buckwheat               |
| ERAN4       | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 | annual buckwheat              | annual wild buckwheat               |
| ERCE2       | <i>Eriogonum cernuum</i>                                | <i>Eriogonum cernuum</i>                                | nodding buckwheat             | nodding wild buckwheat              |
| EREF        | <i>Eriogonum effusum</i>                                | <i>Eriogonum effusum</i>                                | spreading buckwheat           | wildbuckwheat                       |
| ERJA        | <i>Eriogonum jamesii</i>                                | <i>Eriogonum jamesii</i>                                | James' buckwheat              | antelope-sage; James eriogonum      |
| ERLE9       | <i>Eriogonum leptocladon</i>                            | <i>Eriogonum leptocladon</i>                            | sand buckwheat                | wildbuckwheat                       |
| ERPO4       | <i>Eriogonum polycladon</i>                             | <i>Eriogonum polycladon</i>                             | sorrel buckwheat              | sorrel wild buckwheat               |
| ERRA3       | <i>Eriogonum racemosum</i>                              | <i>Eriogonum racemosum</i>                              | redroot buckwheat             | redroot wild buckwheat              |
| ERIC6       | <i>Erodium cicutarium</i>                               | <i>Erodium cicutarium</i>                               | redstem stork's bill          | alfilaree; redstemmed filaree       |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>         | <i>Erysimum asperum</i>                                 | sanddunewallflower            | plains wallflower                   |
| ERCA14      | <i>Erysimum capitatum</i>                               | <i>Erysimum capitatum</i>                               | sanddunewallflower            | western wallflower                  |
| ERIN7       | <i>Erysimum inconspicuum</i>                            | <i>Erysimum inconspicuum</i>                            | shy wallflower                | wallflower                          |
| ERHE7       | <i>Erythronium hendersonii</i>                          | <i>Eupatorium herbaceum</i>                             | Henderson's fawnlily          | desert thoroughwort                 |
| CHAL11      | <i>Chamaesyce albomarginata</i>                         | <i>Euphorbia albomarginata</i>                          | whitemargin sandmat           | rattlesnake weed                    |
| EUDE4       | <i>Euphorbia dentata</i>                                | <i>Euphorbia dentata</i>                                | toothed spurge                | spurge                              |
| EUDE4       | <i>Euphorbia dentata</i>                                | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>        | toothed spurge                | spurge                              |
| EUEX4       | <i>Euphorbia exstipulata</i>                            | <i>Euphorbia exstipulata</i>                            | squareseed spurge             | spurge                              |
| CHFE3       | <i>Chamaesyce fendleri</i>                              | <i>Euphorbia fendleri</i> var. <i>fendleri</i>          | Fendler's sandmat             | Fendler spurge                      |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>             | <i>Euphorbia geyeri</i>                                 |                               | spurge                              |
| EULU        | <i>Euphorbia lurida</i>                                 | <i>Euphorbia lurida</i>                                 | San Francisco Mountain spurge | spurge                              |
| CHMI8       | <i>Chamaesyce missurica</i>                             | <i>Euphorbia missurica</i> var. <i>intermedia</i>       | prairie sandmat               | Missouri spurge                     |

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| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                      | Common Name from NRCS PLANTS | Common Name from Southwestern Texts |
|-------------|-----------------------------------------------------------|-------------------------------------------------|------------------------------|-------------------------------------|
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                    | thymeleaf sandmat            | New Mexico Spurge                   |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                       | threadstem sandmat           | spurge                              |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                        | Rocky Mountain spurge        | spurge                              |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                  | thymeleaf sandmat            | thymeleaf spurge                    |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                           | winterfat                    | winterfat; white sage               |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                        | shaggy dwarf morningglory    | morning bouquet                     |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                        | Apacheplume                  | Apache plume                        |
| FERUR       | <i>Fendlera rupicola</i> var. <i>rupicola</i>             | <i>Fendlera rupicola</i> var. <i>rupicola</i>   | cliff fendlerbush            | cliff Fendlerbush                   |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                        | Arizona fescue               | Arizona fescue                      |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                          |                              | meadow fescue                       |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                        | six-weeks fescue             | six-weeks fescue                    |
| FEOV        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                            | sheep fescue                 | sheep fescue                        |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                          | ravine fescue                | fescue                              |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                         | Thurber's fescue             | Thurber fescue                      |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                   | stretchberry                 | New Mexico Olive                    |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>               | <i>Fragaria americana</i>                       | woodland strawberry          | bracted strawberry, wild strawberry |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>         | <i>Fragaria ovalis</i>                          | Virginia strawberry          | wild strawberry                     |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                        | <i>Franseria acanthicarpa</i>                   | flatspine burr ragweed       | burweed; bursage                    |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                         | <i>Franseria confertiflora</i>                  | weakleaf burr ragweed        | bursage                             |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                       | <i>Gaillardia pinnatifida</i>                   | red dome blanketflower       | firewheel                           |
| GAAP2       | <i>Galium aparine</i> L.                                  | <i>Galium aparine</i>                           | stickywilly                  | bedstraw; goosegrass                |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>asperrimum</i>            | <i>Galium asperrimum</i>                        | Mexican bedstraw             | rough-stemmed bedstraw              |
| GABO2       | <i>Galium boreale</i>                                     | <i>Galium boreale</i>                           | northern bedstraw            | northern bedstraw                   |
| GAFE        | <i>Galium fendleri</i>                                    | <i>Galium fendleri</i>                          | Fendler's bedstraw           | Fendler bedstraw                    |
| GAMI        | <i>Galium microphyllum</i>                                | <i>Galium microphyllum</i>                      | bracted bedstraw             | littleleaf bedstreaw                |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>            | <i>Galium tinctorum</i> var. <i>subbiflorum</i> | three-petal bedstraw         | bedstraw                            |
| GACO5       | <i>Gaura coccinea</i>                                     | <i>Gaura coccinea</i>                           | scarlet beeblossom           | scarlet gaura                       |
| GAPA6       | <i>Gaura parviflora</i>                                   | <i>Gaura parviflora</i>                         | velvetweed                   | willowweed                          |
| GEAF        | <i>Gentiana affinis</i>                                   | <i>Gentiana affinis</i>                         | pleated gentian              | pleated gentian, prairie gentian    |
| GEAF        | <i>Gentiana affinis</i>                                   | <i>Gentiana bigelovii</i>                       | pleated gentian              | Bigelow closed-gentian              |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>             | <i>Gentiana plebeia</i>                         | autumn dwarfgentian          | gentian                             |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>             | <i>Gentiana strictiflora</i>                    | autumn dwarfgentian          | gentian; rose gentian               |
| GECA3       | <i>Geranium caespitosum</i>                               | <i>Geranium caespitosum</i>                     | pineywoods geranium          | purple geranium; James geranium     |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i>         | <i>Geranium fremontii</i>                       | Fremont's geranium           | Fremont geranium                    |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>Parryi</i>            | <i>Geranium fremontii</i> var. <i>Parryi</i>    | Parry's geranium             | Parry geranium                      |
| GERI        | <i>Geranium richardsonii</i>                              | <i>Geranium richardsonii</i>                    | Richardson's geranium        | Richardson geranium                 |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>           | <i>Geum macrophyllum</i> var. <i>perincisum</i> | largeleaf avens              | cutleaf avens                       |

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| GERI2       | <i>Geum rivale</i>                                                                | <i>Geum rivale</i>                                     | purple avens                 | water avens                              |
| GEAL3       | <i>Geum aleppicum</i>                                                             | <i>Geum strictum</i> var. <i>strictum</i>              | yellow avens                 | yellow avens                             |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>                                        | <i>Geum triflorum</i> var. <i>ciliatum</i>             | old man's whiskers           | old-man's whiskers                       |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>                                    | <i>Gilia flavocincta</i> subsp. <i>australis</i>       | lesser yellowthroat gilia    | gilia                                    |
| GILE3       | <i>Gilia leptomeria</i>                                                           | <i>Gilia leptomeria</i>                                | sand gilia                   | gilia                                    |
| GIPI        | <i>Gilia pinnatifida</i>                                                          | <i>Gilia pinnatifida</i>                               | sticky gilia                 | gilia                                    |
| GLBO        | <i>Glyceria borealis</i>                                                          | <i>Glyceria borealis</i>                               | northern mannagrass          | nothern manna grass                      |
| GLGR        | <i>Glyceria grandis</i>                                                           | <i>Glyceria grandis</i>                                | American mannagrass          | manna grass                              |
| GLST        | <i>Glyceria striata</i>                                                           | <i>Glyceria striata</i>                                | fowl mannagrass              | fowl manna grass                         |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                                                       | <i>Glycyrrhiza lepidota</i>                            | American licorice            | wild licorice                            |
| PSST7       | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             |                              | broad-leaved cottony everlasting         |
| PSST7       | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             |                              | cudweed everlasting; cottony everlasting |
| GNEX        | <i>Gnaphalium exilifolium</i>                                                     | <i>Gnaphalium grayi</i>                                |                              | narrow-leaved cottony everlasting        |
| PSMA11      | <i>Pseudognaphalium macounii</i>                                                  | <i>Gnaphalium macounii</i>                             |                              | wingedcudweed                            |
| GNPA        | <i>Gnaphalium palustre</i>                                                        | <i>Gnaphalium palustre</i>                             | western marsh cudweed        | marsh cudweed                            |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i>                           | <i>Gnaphalium wrightii</i>                             |                              | Wright's cudweed                         |
| GOOB2       | <i>Goodyera oblongifolia</i>                                                      | <i>Goodyera oblongifolia</i>                           | western rattlesnake plantain | giant rattlesnake plantain               |
| GORE2       | <i>Goodyera repens</i>                                                            | <i>Goodyera repens</i>                                 | lesser rattlesnake plantain  | dwarf rattlesnake plantain               |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>                                      | <i>Grindelia aphanactis</i>                            | curlytop gumweed             | gumweed                                  |
| GRFA        | <i>Grindelia fastigiata</i>                                                       | <i>Grindelia fastigiata</i>                            | pointed gumweed              | gumweed                                  |
| GRSQ        | <i>Grindelia squarrosa</i>                                                        | <i>Grindelia squarrosa</i>                             | curlycup gumweed             | curlycup gumweed                         |
| GUMI        | <i>Gutierrezia microcephala</i>                                                   | <i>Gutierrezia microcephala</i>                        | threadleaf snakeweed         | snakeweed                                |
| GUSA2       | <i>Gutierrezia sarothrae</i>                                                      | <i>Gutierrezia sarothrae</i>                           | broom snakeweed              | snakeweed                                |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>                              | <i>Habenaria hyperborea</i>                            | northern green orchid        | bog orchid                               |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>                            | <i>Habenaria sparsiflora</i>                           | canyon bog orchid            | bog orchid                               |
| HAFL2       | <i>Hackelia floribunda</i>                                                        | <i>Hackelia floribunda</i>                             | manyflower stickseed         | beggarlice; stickseed                    |
| HABE3       | <i>Hackelia besseyi</i>                                                           | <i>Hackelia grisea</i>                                 | Bessey's stickseed           | beggarlice                               |
| HAPI2       | <i>Hackelia pinetorum</i>                                                         | <i>Hackelia pinetorum</i>                              | Livermore stickseed          | beggarlice; stickseed                    |
| PYCRC       | <i>Pyrocoma crocea</i> var. <i>crocea</i>                                         | <i>Haplopappus croceus</i>                             | pebble goldenweed            | snowygoldenweed                          |
| MAGR10      | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                            | slender goldenweed           | goldenweed                               |
| MAGR6       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                           | rayless aster                | Nuttall goldenweed                       |
| SOPA4       | <i>Solidago Parryi</i>                                                            | <i>Haplopappus Parryi</i>                              | Parry's goldenrod            | Parry goldenweed                         |
| MAPI4       | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> | lacy tansyaster              | spiny goldenweed                         |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                              | Drummond's false pennyroyal  | false pennyroyal                         |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                    | false-pennyroyal             | false pennyroyal                         |

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| HEOB        | <i>Hedeoma oblongifolia</i>                              | <i>Hedeoma oblongifolia</i>                               | false-pennyroyal             | false pennyroyal                    |
| HEPU12      | <i>Hedeoma pulcherrima</i>                               | <i>Hedeoma pulcherrima</i>                                | false-pennyroyal             | false pennyroyal                    |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>           | <i>Helenium autumnale</i> var. <i>montanum</i>            | mountain sneezeweed          | winged sneezeweed                   |
| HYHO        | <i>Hymenoxys hoopesii</i>                                | <i>Helenium hoopesii</i>                                  |                              | orange sneezeweed                   |
| HEQU2       | <i>Helianthella quinquenervis</i>                        | <i>Helianthella quinquenervis</i>                         | five-nerve helianthella      | nodding wood-sunflower              |
| HEAN3       | <i>Helianthus annuus</i>                                 | <i>Helianthus annuus</i>                                  | common sunflower             | annual sunflower                    |
| HEAR8       | <i>Helianthus arizonensis</i>                            | <i>Helianthus arizonensis</i>                             | Arizona sunflower            |                                     |
| HEPE        | <i>Helianthus petiolaris</i>                             | <i>Helianthus petiolaris</i>                              | prairie sunflower            | prairie sunflower                   |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i> | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i>    | stiff sunflower              | mesa sunflower                      |
| HEMA80      | <i>Heracleum maximum</i>                                 | <i>Heracleum lanatum</i>                                  | common cow-parsnip           | cow-parsnip                         |
| HEPA11      | <i>Heuchera parvifolia</i>                               | <i>Heuchera parvifolia</i>                                | littleleaf alumroot          | alumroot                            |
| HICA4       | <i>Hieracium carneum</i>                                 | <i>Hieracium carneum</i>                                  | Huachuca hawkweed            | hawkweed                            |
| HIFE        | <i>Hieracium fendleri</i>                                | <i>Hieracium fendleri</i>                                 | yellow hawkweed              | Fendler hawkweed                    |
| HIOD        | <i>Hierochloa odorata</i>                                | <i>Hierochloa odorata</i>                                 | sweetgrass                   | holy grass; vanilla grass           |
| PLJA        | <i>Pleuraphis jamesii</i>                                | <i>Hilaria jamesii</i>                                    |                              | galleta                             |
| HODU        | <i>Holodiscus dumosus</i>                                | <i>Holodiscus dumosus</i>                                 | rock-spirea                  | ocean-spray; rock-spiraea           |
| HOBR2       | <i>Hordeum brachyantherum</i>                            | <i>Hordeum brachyantherum</i>                             | meadow barley                | meadow barley                       |
| HOJU        | <i>Hordeum jubatum</i>                                   | <i>Hordeum jubatum</i>                                    | foxtail barley               | foxtail barley                      |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>            | <i>Humulus americanus</i>                                 | common hop                   | American hop; common hop            |
| HYFE        | <i>Hydrophyllum fendleri</i>                             | <i>Hydrophyllum fendleri</i>                              | Fendler's waterleaf          | squaw lettuce; western waterleaf    |
| HYFI        | <i>Hymenopappus filifolius</i>                           | <i>Hymenopappus filifolius</i>                            | fineleaf hymenopappus        | whiteragweed                        |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i>    | <i>Hymenopappus flavescens</i> var. <i>canotomentosus</i> | collegeflower                | yellow ragweed                      |
| HYNE        | <i>Hymenopappus newberryi</i>                            | <i>Hymenopappus newberryi</i>                             | Newberry's hymenopappus      | whiteragweed                        |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                          | <i>Hymenopappus tenuifolius</i>                           | Chalk Hill hymenopappus      | whiteragweed                        |
| TECA2       | <i>Tetradymia canescens</i>                              | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>              | spineless horsebrush         | whiteragweed                        |
| TEACA       | <i>Tetraeneuris acaulis</i> var. <i>arizonica</i>        | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>            | Arizona hymenoxys            | whiteragweed                        |
| TEACN       | <i>Tetraeneuris acaulis</i> var. <i>nana</i>             | <i>Hymenoxys argentea</i>                                 |                              | perky sue; bitterweed               |
| TEBR        | <i>Tetraeneuris brandegei</i>                            | <i>Hymenoxys brandegei</i>                                | Brandegee's hymenoxys        | bitterweed                          |
| TEIV        | <i>Tetraeneuris ivesiana</i>                             | <i>Hymenoxys ivesiana</i>                                 | Ives' fournerved daisy       | bitterweed                          |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>     | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>      | Colorado rubberweed          | pinque; Colorado rubberweed         |
| HYNI        | <i>Hyoscyamus niger</i>                                  | <i>Hyoscyamus niger</i>                                   | black henbane                | henbane                             |
| HYFO4       | <i>Hypericum formosum</i>                                | <i>Hypericum formosum</i>                                 |                              | western St. John's wort             |
| IPCO3       | <i>Ipomoea coccinea</i>                                  | <i>Ipomoea coccinea</i>                                   | redstar                      | star-glory                          |
| IPHE        | <i>Ipomoea hederacea</i>                                 | <i>Ipomoea hederacea</i>                                  | ivyleaf morningglory         | ivy-leaved morning-glory            |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>         | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>        | skyrocket gilia              | skyrocket, scarlet trumpet          |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>        | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>           | Nuttall's deserttrumpets     | Texas ipomopsis                     |
| IPLA2       | <i>Ipomopsis laxiflora</i>                               | <i>Ipomopsis laxiflora</i>                                | iron skyrocket               | ipomopsis                           |

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| IPL02       | <i>Ipomopsis longiflora</i>                             | <i>Ipomopsis longiflora</i>                       | flaxflowered gilia           | blue gilia; blue trumpet; pale trumpet |
| IPMU3       | <i>Ipomopsis multiflora</i>                             | <i>Ipomopsis multiflora</i>                       | manyflowered gilia           | ipomopsis                              |
| IPPU4       | <i>Ipomopsis pumila</i>                                 | <i>Ipomopsis pumila</i>                           | dwarf gilia                  | ipomopsis                              |
| IRMI        | <i>Iris missouriensis</i>                               | <i>Iris missouriensis</i>                         | Rocky Mountain iris          | blue flag                              |
| IVAX        | <i>Iva axillaris</i>                                    | <i>Iva axillaris</i>                              | povertyweed                  | poverty marsh-elder                    |
| IVXA        | <i>Iva xanthifolia</i>                                  | <i>Iva xanthifolia</i>                            | giant sumpweed               | marsh-elder; clotbur                   |
| JAAM        | <i>Jamesia americana</i>                                | <i>Jamesia americana</i>                          | cliffbush                    | cliffbush                              |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>             | <i>Juncus balticus</i> var. <i>montanus</i>       | mountain rush                | wire rush                              |
| JUBU        | <i>Juncus bufonius</i>                                  | <i>Juncus bufonius</i>                            | toad rush                    | toad rush                              |
| JUCO2       | <i>Juncus confusus</i>                                  | <i>Juncus confusus</i>                            | Colorado rush                | rush                                   |
| JUDR        | <i>Juncus drummondii</i>                                | <i>Juncus drummondii</i>                          | Drummond's rush              | Drummond rush                          |
| JUIN2       | <i>Juncus interior</i>                                  | <i>Juncus interior</i>                            | inland rush                  | inland rush                            |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>       | <i>Juncus longistylis</i> var. <i>longistylis</i> | longstyle rush               | rush                                   |
| JUMA4       | <i>Juncus marginatus</i>                                | <i>Juncus marginatus</i>                          | grassleaf rush               | rush                                   |
| JUME4       | <i>Juncus mexicanus</i>                                 | <i>Juncus mexicanus</i>                           | Mexican rush                 | rush                                   |
| JUTE        | <i>Juncus tenuis</i>                                    | <i>Juncus tenuis</i>                              | poverty rush                 | soft rush                              |
| JUTO        | <i>Juncus Torreyi</i>                                   | <i>Juncus Torreyi</i>                             | Torrey's rush                | Torrey rush                            |
| JUXI        | <i>Juncus xiphioides</i>                                | <i>Juncus xiphioides</i>                          | irisleaf rush                | rush                                   |
| JUCO6       | <i>Juniperus communis</i>                               | <i>Juniperus communis</i>                         | common juniper               | dwarf juniper; ground-cedar            |
| JUDE2       | <i>Juniperus deppeana</i>                               | <i>Juniperus deppeana</i>                         | alligator juniper            | alligator-bark juniper                 |
| JUMO        | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                       | one-seed juniper             | one-seed juniper                       |
| JUSC2       | <i>Juniperus scopulorum</i>                             | <i>Juniperus scopulorum</i>                       | Rocky Mountain juniper       | Rocky Mountain juniper                 |
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>                  | hairy caltrop                | hairy caltrop                          |
| KOSC        | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                            | common kochia                | summer cypress                         |
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                          | prairie Junegrass            | Junegrass                              |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                             | two-flowerdwarf-dandelion    | dwarf-dandelion                        |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                         | false boneset                | false boneset                          |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                         | Canada lettuce               | Canadian lettuce                       |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                       | grassleaf lettuce            | grass-leaved lettuce                   |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                        | biannual lettuce             | prickly lettuce                        |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                          | blue lettuce                 | chickory-lettuce                       |
| LASE        | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                           | prickly lettuce              | prickly lettuce                        |
| LABI        | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                            | tall blue lettuce            | spike lettuce                          |
| LASQ        | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                           | European stickseed           | stickseed                              |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                          | desert stickseed             | stickseed                              |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                             | flatspine stickseed          | stickseed                              |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus arizonicus</i>                        | aspen peavine                | Arizona peavine                        |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus leucanthus</i>                        | aspen peavine                | peavine                                |
| LEOR        | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                          | rice cutgrass                | cutgrass                               |

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| USDA Symbol | USDA NRCS PLANTS                                 | Martin and Hutchins (1980)                        | Common Name from NRCS PLANTS | Common Name from Southwestern Texts |
|-------------|--------------------------------------------------|---------------------------------------------------|------------------------------|-------------------------------------|
| LEMI3       | <i>Lemna minor</i>                               | <i>Lemna minor</i>                                | common duckweed              | lesser duckweed                     |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>    | <i>Lepidium medium</i> var. <i>pubescens</i>      | medium pepperweed            | hair peppergrass                    |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i> | <i>Lepidium medium</i> var. <i>medium</i>         | hairy pepperweed             | peppergrass                         |
| LEFE        | <i>Lesquerella fendleri</i>                      | <i>Lesquerella fendleri</i>                       | Fendler's bladderpod         | bladderpod                          |
| LEIN3       | <i>Lesquerella intermedia</i>                    | <i>Lesquerella intermedia</i>                     | mid bladderpod               | bladderpod                          |
| LERE3       | <i>Lesquerella rectipes</i>                      | <i>Lesquerella rectipes</i>                       | straight bladderpod          |                                     |
| CHER2       | <i>Chaetopappa ericoides</i>                     | <i>Leucelene ericoides</i>                        | rose heath                   | sand aster                          |
| LIPU        | <i>Liatris punctata</i>                          | <i>Liatris punctata</i>                           | dotted gayfeather            | dotted gayfeather                   |
| LIPO        | <i>Ligusticum porteri</i>                        | <i>Ligusticum porteri</i>                         | Porter's licoriceroot        | Porter's lovage; osha; chuchupate   |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i> | <i>Lilium umbellatum</i>                          | wood lily                    | Rocky Mountain lily; wood lily      |
| LIAQ        | <i>Limosella aquatica</i>                        | <i>Limosella aquatica</i>                         | water mudwort                | northern mudwort                    |
| LIVU2       | <i>Linaria vulgaris</i>                          | <i>Linaria vulgaris</i>                           | butter and eggs              | butter-and-eggs                     |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>       | <i>Linum aristatum</i> var. <i>australe</i>       | southern flax                | flax                                |
| LILE3       | <i>Linum lewisii</i>                             | <i>Linum lewisii</i>                              | prairie flax                 | western blue flax                   |
| LINE        | <i>Linum neomexicanum</i>                        | <i>Linum neomexicana</i>                          | New Mexico yellow flax       | New Mexico yellow flax              |
| LIPU4       | <i>Linum puberulum</i>                           | <i>Linum puberulum</i>                            | plains flax                  | yellow flax                         |
| LIRI        | <i>Linum rigidum</i>                             | <i>Linum rigidum</i> "complex"                    | stiffstem flax               | yellow flax                         |
| LICO7       | <i>Lithospermum cobrense</i>                     | <i>Lithospermum cobrense</i>                      | smooththroat gromwell        | puccoon                             |
| LIIN2       | <i>Lithospermum incisum</i>                      | <i>Lithospermum incisum</i>                       | narrowleaf gromwell          | fringed puccoon                     |
| LIMU3       | <i>Lithospermum multiflorum</i>                  | <i>Lithospermum multiflorum</i>                   | manyflowered gromwell        | puccoon                             |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>   | <i>Lobelia cardinalis</i> subsp. <i>graminae</i>  | cardinalflower               | western cardinal flower             |
| LOPE        | <i>Lolium perenne</i>                            | <i>Lolium perenne</i>                             | perennial ryegrass           | perennial ryegrass                  |
| LOIN5       | <i>Lonicera involucrata</i>                      | <i>Lonicera involucrata</i>                       | twinberry honeysuckle        | inkberry; bearberry honeysuckle     |
| LOWR        | <i>Lotus wrightii</i>                            | <i>Lotus wrightii</i>                             | Wright's deervetch           | deervetch                           |
| LUAL5       | <i>Lupinus X alpestris</i>                       | <i>Lupinus alpestris</i>                          | lupine                       | lupine                              |
| LUAM        | <i>Lupinus ammophilus</i>                        | <i>Lupinus ammophilus</i>                         | sand lupine                  | lupine                              |
| LUAR3       | <i>Lupinus argenteus</i>                         | <i>Lupinus argenteus</i>                          | silvery lupine               | silvery lupine                      |
| LUBR2       | <i>Lupinus brevicaulis</i>                       | <i>Lupinus brevicaulis</i>                        | shortstem lupine             | short-stemmed lupine                |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>  | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> | Kellogg's spurred lupine     | lupine                              |
| LUKI        | <i>Lupinus kingii</i>                            | <i>Lupinus kingii</i>                             | King's lupine                | King's lupine                       |
| LUPU        | <i>Lupinus pusillus</i>                          | <i>Lupinus pusillus</i>                           | rusty lupine                 | low lupine; rusty lupine            |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i> | <i>Lupinus rubricaulis</i>                        | silvery lupine               | purple lupine                       |
| LUPA4       | <i>Luzula parviflora</i>                         | <i>Luzula parviflora</i>                          | smallflowered woodrush       | wood rush                           |
| LYPA        | <i>Lycium pallidum</i>                           | <i>Lycium pallidum</i>                            | pale wolfberry               | pale wolfberry                      |
| LYAM        | <i>Lycopus americanus</i>                        | <i>Lycopus americanus</i>                         | American waterhorehound      | American bugleweed                  |
| LYPH        | <i>Lycurus phleoides</i>                         | <i>Lycurus phleoides</i>                          | common wolfstail             | wolfstail                           |
| PSAS2       | <i>Psilactis asteroides</i>                      | <i>Machaeranthera amplifolia</i>                  |                              | aster                               |
| MABI        | <i>Machaeranthera bigelovii</i>                  | <i>Machaeranthera bigelovii</i>                   | Bigelow's tansyaster         | Bigelow aster                       |
| MACA2       | <i>Machaeranthera canescens</i>                  | <i>Machaeranthera canescens</i>                   | hoary aster                  | aster                               |

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| USDA Symbol | USDA NRCS PLANTS                                                         | Martin and Hutchins (1980)                         | Common Name from NRCS PLANTS  | Common Name from Southwestern Texts                 |
|-------------|--------------------------------------------------------------------------|----------------------------------------------------|-------------------------------|-----------------------------------------------------|
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                     | hoary tansyaster              | aster                                               |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>                | tanseyleaf aster              | aster                                               |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                    | cutleaf goldenweed            | aster                                               |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                        | Fendler's desertdandelion     | desert dandelion                                    |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                              | Chiricahua addersmouth orchid | adder's mouth                                       |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                             | common mallow                 | common mallow                                       |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                            | cheeseweed mallow             | cheeseweed                                          |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                        | Wright's nipple cactus        | pincushion cactus                                   |
| MAVU        | <i>Marrubium vulgare</i>                                                 | <i>Marrubium vulgare</i>                           | horehound                     | common horehound                                    |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                       | <i>Maurandya antirrhiniflora</i>                   | roving sailor                 | false snapdragon; little snapdragon vine            |
| MELU        | <i>Medicago lupulina</i>                                                 | <i>Medicago lupulina</i>                           | black medick                  | black medic                                         |
| MESA        | <i>Medicago sativa</i>                                                   | <i>Medicago sativa</i>                             | alfalfa                       | alfalfa                                             |
| MELE2       | <i>Melampodium leucanthum</i>                                            | <i>Melampodium leucanthum</i>                      | plains blackfoot              | plains blackfoot                                    |
| MEPO        | <i>Melica porteri</i>                                                    | <i>Melica porteri</i>                              | Porter's melicgrass           | Porter melic                                        |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus albus</i>                             | yellow sweetclover            | white sweet clover                                  |
| MEIN2       | <i>Melilotus indicus</i>                                                 | <i>Melilotus indicus</i>                           | annual yellow sweetclover     | sour clover                                         |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus officinalis</i>                       | yellow sweetclover            | yellow sweet clover                                 |
| MESC        | <i>Menodora scabra</i>                                                   | <i>Menodora scabra</i>                             | rough menodora                | rough bull cods                                     |
| MEAR4       | <i>Mentha arvensis</i>                                                   | <i>Mentha arvensis</i>                             | wild mint                     | mint                                                |
| MEAL6       | <i>Mentzelia albicaulis</i>                                              | <i>Mentzelia albicaulis</i>                        | whitestem blazingstar         | white-stemmed stickleaf, white-stemmed blazing star |
| MELA        | <i>Mentzelia laciniata</i>                                               | <i>Mentzelia laciniata</i>                         | cutleaf blazingstar           | stickleaf; blazing star                             |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>                                | <i>Mentzelia nuda</i> var. <i>stricta</i>          | bractless blazingstar         | blazing star; stickleaf                             |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>                               | <i>Mentzelia pumila</i> var. <i>integra</i>        | dwarf mentzelia               | blazing star; stickleaf                             |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>                          | <i>Mentzelia pumila</i> var. <i>multiflora</i>     | adonis blazingstar            | blazing star; stickleaf                             |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                       | <i>Mentzelia pumila</i> var. <i>pumila</i>         | adonis blazingstar            | blazing star; stickleaf                             |
| MERU        | <i>Mentzelia rusbyi</i>                                                  | <i>Mentzelia rusbyi</i>                            | Rusby's blazingstar           | blazing star; stickleaf                             |
| MEBR        | <i>Mertensia brevistyla</i>                                              | <i>Mertensia brevistyla</i>                        | shortstyle bluebells          | bluebells; chimingbells                             |
| MEFR2       | <i>Mertensia franciscana</i>                                             | <i>Mertensia franciscana</i>                       | Franciscan bluebells          | Franciscan bluebells                                |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>navalis</i>                          | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   | greenleaf bluebells           | bluebells; chimngbells                              |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                       | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | prairie bluebells             | bluebells; chimingbells                             |
| URLI2       | <i>Uropappus linearifolius</i>                                           | <i>Microseris linearifolia</i>                     |                               | microseris                                          |
|             |                                                                          | <i>Microseris minimus</i>                          |                               | microseris                                          |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                               | <i>Microsteris gracilis</i>                        | slender phlox                 | microsteris                                         |
| MIFL2       | <i>Mimulus floribundus</i>                                               | <i>Mimulus floribundus</i>                         | manyflowered monkeyflower     | monkeyflower                                        |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                             | <i>Mimulus glabratus</i> var. <i>fremontii</i>     | James' monkeyflower           | smooth monkeyflower                                 |
| MIGU        | <i>Mimulus guttatus</i>                                                  | <i>Mimulus guttatus</i>                            | seep monkeyflower             | spotted monkeyflower                                |



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|-------------|------------------------------------------------------------------------|---------------------------------------------------|-------------------------------|-------------------------------------|
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                         | scarlet four o'clock          | red umbrellawort                    |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                       | Colorado four o'clock         | showy four-o'clock                  |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                     | smooth spreading four o'clock | trailing four-o'clock               |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                       | American dragonhead           | small-flowered dragonhead           |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                       | mintleaf beebalm              | wild bergamot; horsemint            |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                          | pony beebalm                  | ponymint                            |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                       | pinemap                       | pinemap                             |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                       | Navajo muhly                  | muhly                               |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                   | alkali muhly                  | alkali muhly; scratchgrass          |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                    | Utah muhly                    | muhly                               |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                      | Mexican muhly                 | Mexican dropseed                    |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                       | mountain muhly                | mountain muhly                      |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                    | New Mexico muhly              | New Mexico muhly                    |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                       | bush muhly                    | bush muhly                          |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                   | Peruvian muhly                | muhly                               |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                      | marsh muhly                   | green muhly                         |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                        | deergrass                     | deergrass                           |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia Torreyi</i>                       | ring muhly                    | ring muhly; ringgrass               |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolfii</i>                        | muhly                         | red muhly                           |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                      | spike muhly                   | spike muhly                         |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                           | false buffalograss            | false buffalo-grass                 |
|             |                                                                        | <i>Myosurus minimus</i>                           |                               | mousetail                           |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                            | wishbone fiddleleaf           | nama                                |
| NAHI        | <i>Nama hispidum</i>                                                   | <i>Nama hispidum</i> var. <i>hispidum</i>         | bristly nama                  | nama                                |
| NECA2       | <i>Nepeta cataria</i>                                                  | <i>Nepeta cataria</i>                             | catnip                        | catnip; catmint                     |
| NIAT        | <i>Nicotiana attenuata</i>                                             | <i>Nicotiana attenuata</i>                        | coyote tobacco                | coyote tobacco                      |
| NOMI        | <i>Nolina microcarpa</i>                                               | <i>Nolina microcarpa</i>                          | sacahuista                    | beargrass                           |
| NOTHO       | <i>Notholaena</i>                                                      | <i>Notholaena</i> spp.                            | cloak fern                    | cloak-fern                          |
| NOST        | <i>Notholaena standleyi</i>                                            | <i>Notholaena standleyi</i>                       | star cloak fern               | cloak-fern                          |
| OEAL        | <i>Oenothera albicaulis</i>                                            | <i>Oenothera albicaulis</i>                       | whitest eveningprimrose       | prairie evening-primrose            |
| OECE2       | <i>Oenothera cespitosa</i>                                             | <i>Oenothera caespitosa</i>                       | tufted eveningprimrose        | tufted evening-primrose             |
| OECEM3      | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i>                    | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>  | tufted eveningprimrose        | evening-primrose                    |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>                       | <i>Oenothera caespitosa</i> subsp. <i>montana</i> | tufted eveningprimrose        | Montana tufted evening-primrose     |
| OECO2       | <i>Oenothera coronopifolia</i>                                         | <i>Oenothera coronopifolia</i>                    | crownleaf eveningprimrose     | evening-primrose                    |
| OEFL        | <i>Oenothera flava</i>                                                 | <i>Oenothera flava</i>                            | yellow eveningprimrose        | evening-primrose                    |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>                             | <i>Oenothera hookeri</i>                          | Hooker's eveningprimrose      | Hooker's evening-primrose           |
| OELA        | <i>Oenothera laciniata</i>                                             | <i>Oenothera laciniata</i> var. <i>laciniata</i>  | cutleaf eveningprimrose       | cutleaf evening-primrose            |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>                           | <i>Oenothera pallida</i> subsp. <i>pallida</i>    | pale eveningprimrose          | pale evening-primrose               |

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| OEPR        | <i>Oenothera primiveris</i>                                 | <i>Oenothera primiveris</i>                        | desert eveningprimrose       | large yellow desert primrose               |
| OPCL        | <i>Opuntia clavata</i>                                      | <i>Opuntia clavata</i>                             | club cholla                  | club cholla                                |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>                | <i>Opuntia erinacea</i> var. <i>erinacea</i>       | grizzlybear pricklypear      | prickly pear cactus; hedgehog prickly pear |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>               | <i>Opuntia erinacea</i> var. <i>utahensis</i>      | Utah grizzlybear pricklypear | Utah prickly pear cactus                   |
| OPIM        | <i>Opuntia imbricata</i>                                    | <i>Opuntia imbricata</i>                           | tree cholla                  | walkKingstick cholla; cane cholla          |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>            | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   | twistspine pricklypear       | prickly pear                               |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>          | <i>Opuntia phaeacantha</i> var. <i>discata</i>     | tulip pricklypear            | prickly pear                               |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>          | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> | cactus apple                 | prickly pear; purple fruit prickly pear    |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>          | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | hairspine pricklypear        | plains prickly pear; starvation cactus     |
| ORFA        | <i>Orobanche fasciculata</i>                                | <i>Orobanche fasciculata</i> var. <i>lutea</i>     | clustered broomrape          | cancer root                                |
| ORLU        | <i>Orobanche ludoviciana</i>                                | <i>Orobanche ludoviciana</i>                       | Louisiana broomrape          | broomrape                                  |
| ORLUM       | <i>Orobanche ludoviciana</i> ssp. <i>multiflora</i>         | <i>Orobanche multiflora</i>                        | manyflowered broomrape       | broomrape                                  |
| ORLU2       | <i>Orthocarpus luteus</i>                                   | <i>Orthocarpus luteus</i>                          | yellow owlclover             | yellow owl-clover                          |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                            | <i>Orthocarpus purpureo-albus</i>                  | purplewhite owlclover        | purple-white owl-clover                    |
| ORAS        | <i>Oryzopsis asperifolia</i>                                | <i>Oryzopsis asperifolia</i>                       | roughleaf ricegrass          | mountain ricegrass                         |
| ACHY        | <i>Achnatherum hymenoides</i>                               | <i>Oryzopsis hymenoides</i>                        |                              | Indian ricegrass                           |
| PIMI7       | <i>Piptatherum micranthum</i>                               | <i>Oryzopsis micrantha</i>                         |                              | littleseed ricegrass                       |
| OSDE        | <i>Osmorhiza depauperata</i>                                | <i>Osmorhiza obtusa</i>                            | bluntseed sweetroot          | bluntseed sweet cicely                     |
| OXAL2       | <i>Oxalis alpina</i>                                        | <i>Oxalis metcalfei</i>                            | alpine woodsorrel            | woodsorrel                                 |
| OXVI        | <i>Oxalis violacea</i>                                      | <i>Oxalis violacea</i>                             | violet woodsorrel            | violet woodsorrel                          |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                          | hairy four o'clock           | desert four-o'clock                        |
| MILI3       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i>     | narrowleaf four o'clock      | desert four-o'clock                        |
| OXFE        | <i>Oxyopolis fendleri</i>                                   | <i>Oxyopolis fendleri</i>                          | Fendler's cowbane            | Fendler cowbane                            |
| OXLA3       | <i>Oxytropis lambertii</i>                                  | <i>Oxytropis lambertii</i>                         | Lambert's crazyweed          | Lambert's locoweed                         |
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                       | boxleaf myrtle               | mrytle boxleaf                             |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                            | bulb panicgrass              | bulbed panic grass                         |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i>     | witchgrass                   | witchgrass                                 |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                              | Hall's panicgrass            | Halls panic grass                          |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                             | Scribner's rosette grass     | panic grass                                |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                           | broomcorn millet             | broomcorn millet; proso                    |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                             | obtuse panicgrass            | vine mesquite                              |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                       | Scribner's rosette grass     | panic grass                                |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                        | western panicgrass           | Tennessee panic grass                      |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                            | switchgrass                  | switchgrass                                |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                          | mariola                      | mariola                                    |

# COMMON NAMES CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                                | Common Name from NRCS PLANTS | Common Name from Southwestern Texts       |
|-------------|-------------------------------------------------------------|-----------------------------------------------------------|------------------------------|-------------------------------------------|
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                             | Virginia creeper             | western five-leaved ivy; Virginia creeper |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                                | narrowleaf pectis            | limoncillo                                |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                                     | cinchweed fetidmarigold      | fetid marigold; dogweed; chinchweed       |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                                  | giant lousewort              | gray lousewort                            |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                          | paperspine fishhook cactus   | grama grass cactus                        |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                               | purple cliffbrake            | cliffbrake; rock brake                    |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                                   | Fendler's falsecloak fern    | cliffbrake                                |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                                  | southwestern falsecloak fern | cliffbrake                                |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                             | birdfoot cliffbrake          | cliffbrake                                |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>Torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>Torreyi</i>           | Torrey's penstemon           | beardtongue                               |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                                  | Eaton's penstemon            | Eaton beardtongue                         |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                                 | Fendler's penstemon          | Fendler beardtongue                       |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                                  | James' beardtongue           | James beardtongue                         |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                                   | handsome beardtongue         | beardtongue                               |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>      | <i>Penstemon linarioides</i> subsp. <i>coloradensis</i>   | Colorado penstemon           | beardtongue                               |
| PEOL        | <i>Penstemon oliganthus</i>                                 | <i>Penstemon oliganthus</i>                               | Apache beardtongue           | beardtongue                               |
| PERY        | <i>Penstemon rydbergii</i>                                  | <i>Penstemon rydbergii</i>                                | Rydberg's penstemon          | Rydberg beardtongue                       |
| PESE11      | <i>Penstemon secundiflorus</i>                              | <i>Penstemon secundiflorus</i>                            | sidebells penstemon          | beardtongue                               |
| PEVI4       | <i>Penstemon virgatus</i>                                   | <i>Penstemon virgatus</i>                                 | upright blue beardtongue     | virgated beardtongue                      |
| PEWH        | <i>Penstemon whippleanus</i>                                | <i>Penstemon whippleanus</i>                              | Whipple's penstemon          | Whipple beardtongue; Whipple's penstemon  |
| PECA10      | <i>Pericome caudata</i>                                     | <i>Pericome caudata</i>                                   | mountain leaftail            | taperleaf                                 |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                    | <i>Petalostemum candidum</i>                              | white prairieclover          | white prairie clover                      |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                  | <i>Petalostemum compactum</i>                             | compact prairieclover        | prairie clover                            |
| DAEX2       | <i>Dalea exigua</i>                                         | <i>Petalostemum exile</i>                                 | Chihuahuan prairieclover     | prairie clover                            |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                  | <i>Petalostemum purpureum</i>                             | violet prairieclover         | purple prairie clover                     |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                    | <i>Petalostemum villosum</i>                              | silky prairieclover          | silky prairie clover                      |
| PHCO        | <i>Phacelia coerulea</i>                                    | <i>Phacelia coerulea</i>                                  | skyblue scorpionweed         | blue scorpionweed                         |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>             | <i>Phacelia corrugata</i>                                 | cleftleaf wildheiotrope      | scorpionweed                              |
| PHHE2       | <i>Phacelia heterophylla</i>                                | <i>Phacelia heterophylla</i>                              | varileaf phacelia            | virgate scorpionweed                      |
| PHIN        | <i>Phacelia integrifolia</i>                                | <i>Phacelia integrifolia</i>                              | gypsum scorpionweed          | scorpionweed                              |
| PHEG        | <i>Phacelia egea</i>                                        | <i>Phacelia magellanica</i>                               | Kaweah River scorpionweed    | scorpionweed                              |
| PHNE3       | <i>Phacelia neomexicana</i>                                 | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       | New Mexico scorpionweed      | New Mexico scorpionweed                   |
| PHAN3       | <i>Phaseolus angustissimus</i>                              | <i>Phaseolus angustissimus</i>                            | slimleaf bean                | narrowleaf bean                           |
| STLE6       | <i>Strophostyles leiosperma</i>                             | <i>Phaseolus leiospermus</i>                              | slickseed fuzzybean          | wild bean                                 |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i>   | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | littleleaf mockorange        | mock-orane                                |

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| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     | alpine timothy               | alpine timothy                      |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    | timothy                      | common timothy                      |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   | longleaf phlox               | longleaf phlox                      |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             | juniper mistletoe            | juniper mistletoe                   |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                | common reed                  | common reed                         |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           | New Mexican groundcherry     | groundcherry                        |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        | Fendler's groundcherry       | groundcherry                        |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 | husk tomato                  | downy groundcherry                  |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               | mountain ninebark            | ninebark                            |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | Engelmann's spruce           | Engelmann spruce                    |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | blue spruce                  | Colorado blue spruce                |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | twoneedle pinyon             | Colorado pinyon pine                |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     | limber pine                  | limber pine                         |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | ponderosa pine               | ponderosa pine, western yellow pine |
| PLAR2       | <i>Plantago argyrea</i>                                   | <i>Plantago argyrea</i>                                   | saltmeadow plantain          | silvery plantain                    |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     | common plantain              | rippleseed plantain                 |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   | woolly plantain              | woolly Indiant-wheat                |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          | annual bluegrass             | annual bluegrass                    |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      | Bigelow's bluegrass          | Bigelow bluegrass                   |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      | Canada bluegrass             | Canada bluegrass                    |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    | muttongrass                  | muttongrass                         |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       | inland bluegrass             | indland bluegrass                   |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    | skyline bluegrass            | long-liguled muttongrass            |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     | Sandberg bluegrass           | Nevada bluegrass                    |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      | fowl bluegrass               | fowl bluegrass                      |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    | Patterson's bluegrass        | bluegrass                           |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | Kentucky bluegrass           | Kentucky bluegrass                  |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             | sandyseed clammyweed         | clammyweed                          |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | towering Jacobs ladder       | Jacob's ladder                      |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | water smartweed              | water smartweed                     |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                | prostrate knotweed           | knotweed; smartweed                 |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             | American bistort             | bistort                             |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              | black bindweed               | black bindweed; cornbind            |
| PODO4       | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                | Douglas' knotweed            | knotweed; smartweed                 |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>          | <i>Polygonum montanum</i>                                 | Douglas' knotweed            | Rocky Mountain knotweed             |
| POPE3       | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                               | spotted ladythumb            | lady's thumb; heart's ease          |
| PORA3       | <i>Polygonum ramosissimum</i>                             | <i>Polygonum ramosissimum</i>                             | bushy knotweed               | bushy knotweed                      |

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| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i> | <i>Polygonum sawatchense</i>                       | Johnston's knotweed          | knotweed; smartweed                        |
| POMO5       | <i>Polypogon monspeliensis</i>                    | <i>Polypogon monspeliensis</i>                     | annual rabbitsfoot grass     | rabbitfoot grass                           |
| POAN3       | <i>Populus angustifolia</i>                       | <i>Populus angustifolia</i>                        | narrowleaf cottonwood        | narrowleaf cottonwood; mountain cottonwood |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>    | <i>Populus fremontii</i> var. <i>wislizenii</i>    | Rio Grande cottonwood        | rio grande cottonwood; valley cottonwood   |
| POTR5       | <i>Populus tremuloides</i>                        | <i>Populus tremuloides</i> var. <i>aurea</i>       | quaking aspen                | aspen; golden trembling aspen              |
| POOL        | <i>Portulaca oleracea</i>                         | <i>Portulaca oleracea</i>                          | little hogweed               | common purslane                            |
| ARAN7       | <i>Argentina anserina</i>                         | <i>Potentilla anserina</i>                         | silverweed cinquefoil        | silverweed                                 |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>  | <i>Potentilla arguta</i> subsp. <i>convallaria</i> | cream cinquefoil             | tall cinquefoil                            |
| POCO13      | <i>Potentilla concinna</i>                        | <i>Potentilla concinna</i>                         | elegant cinquefoil           | cinquefoil                                 |
| POCR4       | <i>Potentilla crinita</i>                         | <i>Potentilla crinita</i>                          | bearded cinquefoil           | cinquefoil                                 |
| PEFL15      | <i>Pentaphylloides floribunda</i>                 | <i>Potentilla fruticosa</i>                        | shrubby cinquefoil           | shrubby cinquefoil; shrubby potentilla     |
| POHI6       | <i>Potentilla hippiana</i>                        | <i>Potentilla hippiana</i>                         | woolly cinquefoil            | cinquefoil                                 |
| PONO3       | <i>Potentilla norvegica</i>                       | <i>Potentilla norvegica</i>                        | Norwegian cinquefoil         | Norway cinquefoil                          |
| POPE8       | <i>Potentilla pensylvanica</i>                    | <i>Potentilla pensylvanica</i>                     | Pennsylvania cinquefoil      | Pennsylvania cinquefoil                    |
| POPU9       | <i>Potentilla pulcherrima</i>                     | <i>Potentilla pulcherrima</i>                      | beautiful cinquefoil         | cinquefoil                                 |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>   | <i>Potentilla thurberi</i> var. <i>thurberi</i>    | Thurber's cinquefoil         | red cinquefoil                             |
| PRRU        | <i>Primula rusbyi</i>                             | <i>Primula rusbyi</i>                              | Rusby's primrose             | bog primrose                               |
| PRVU        | <i>Prunella vulgaris</i>                          | <i>Prunella vulgaris</i>                           | common selfheal              | common selfheal; healall                   |
| PRAM        | <i>Prunus americana</i>                           | <i>Prunus americana</i>                            | American plum                | wild plum                                  |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>   | <i>Prunus emarginata</i> var. <i>emarginata</i>    | bitter cherry                | bitter cherry                              |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>  | <i>Prunus virginiana</i> var. <i>melanocarpa</i>   | black chokecherry            | western black chokecherry                  |
| PSMO        | <i>Pseudocymopterus montanus</i>                  | <i>Pseudocymopterus montanus</i>                   | alpine false springparsley   | yellow mountain parsley                    |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>   | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>    | Rocky Mountain Douglas fir   | Douglas fir                                |
| PSTA        | <i>Psilostrophe tagetina</i>                      | <i>Psilostrophe tagetina</i>                       | woolly paperflower           | woolly paperflower                         |
| PEHYH       | <i>Pediomelum hypogaeum</i> var. <i>hypogaeum</i> | <i>Psoralea hypogaea</i>                           | scurfpea                     | little scurfpea                            |
| PSLA3       | <i>Psoralidium lanceolatum</i>                    | <i>Psoralea lanceolata</i>                         | lemon scurfpea               | lemon scurfpea; lemonweed                  |
| PSTE5       | <i>Psoralidium tenuiflorum</i>                    | <i>Psoralea tenuiflora</i>                         | slimflower scurfpea          | slender surfpea                            |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>  | common hoptree               | narrowleaf hoptree                         |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>  | <i>Pteridium aquilinum</i> var. <i>pubescens</i>   | hairy brackenfern            | western bracken fern; western bracken      |
| PTAN2       | <i>Pterospora andromedea</i>                      | <i>Pterospora andromedea</i>                       | woodland pinedrops           | pinedrops                                  |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>    | <i>Pulsatilla ludoviciana</i>                      | cutleaf anemone              | pasqueflower                               |
| PUTR2       | <i>Purshia tridentata</i>                         | <i>Purshia tridentata</i>                          | antelope bitterbrush         | antelope brush                             |
| PYAS        | <i>Pyrola asarifolia</i>                          | <i>Pyrola asarifolia</i>                           | liverleaf wintergreen        | gingerleaf wintergree                      |
| PYCH        | <i>Pyrola chlorantha</i>                          | <i>Pyrola chlorantha</i>                           | greenflowered wintergreen    | wintergreene; pyrola                       |
| PYEL        | <i>Pyrola elliptica</i>                           | <i>Pyrola elliptica</i>                            | waxflower shinleaf           | shinleaf wintergreen                       |
| PYMI        | <i>Pyrola minor</i>                               | <i>Pyrola minor</i>                                | snowline wintergreen         | wintergreene; pyrola                       |
| PYPI2       | <i>Pyrola picta</i>                               | <i>Pyrola picta</i>                                | whiteveined wintergreen      | variegated wintergreen                     |

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| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       | desertchicory                | false dandelion                     |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               | Gambel's oak                 | Gambel oak                          |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 | gray oak                     | gray oak                            |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                | pungent oak                  | sandpaper oak                       |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             | shrub live oak               | shrub live oak                      |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               | wavyleaf oak                 | wavyleaf oak                        |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              | sidebells wintergreen        | sidebells                           |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           | littleleaf buttercup         | kidneyleaf buttercup                |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   | hairleaf water buttercup     | whitewater-crowfoot                 |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       | heartleaf buttercup          | heart-leaved buttercup              |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> | Rocky Mountain buttercup     | desert crowfoot                     |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           | graceful buttercup           | homely buttercup                    |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            | Macoun's buttercup           | Macoun's buttercup                  |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          | large buttercup              | showy buttercup                     |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   | blister buttercup            | cursed crowfoot                     |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           | upright prairie coneflower   | prairie coneflower                  |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               | green prairie coneflower     | coneflower                          |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    | smooth sumac                 | smooth sumac; scarlet sumac         |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i>        | <i>Rhus radicans</i>                                  | eastern poison ivy           | poison ivy                          |
| RHTR        | <i>Rhus trilobata</i>                                     | <i>Rhus trilobata</i>                                 | skunkbush sumac              | skunkbush                           |
| RICE        | <i>Ribes cereum</i>                                       | <i>Ribes cereum</i>                                   | wax currant                  | wax currant                         |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>               | <i>Ribes inebrians</i>                                | whisky currant               | pink squaw currant                  |
| RIIN2       | <i>Ribes inerme</i>                                       | <i>Ribes inerme</i>                                   | whitestem gooseberry         | whitestem gooseberry                |
| RILE        | <i>Ribes leptanthum</i>                                   | <i>Ribes leptanthum</i>                               | trumpet gooseberry           | trumpet gooseberry                  |
| RIMO2       | <i>Ribes montigenum</i>                                   | <i>Ribes montigenum</i>                               | gooseberry currant           | gooseberry currant                  |
| RIPI        | <i>Ribes pinetorum</i>                                    | <i>Ribes pinetorum</i>                                | orange gooseberry            | orange gooseberry                   |
| RIWO        | <i>Ribes wolfii</i>                                       | <i>Ribes wolfii</i>                                   | Wolf's currant               | Rothrock currant                    |
| RONE        | <i>Robinia neomexicana</i>                                | <i>Robinia neomexicana</i>                            | New Mexico locust            | New Mexico locust                   |
| ROIS2       | <i>Rorippa islandica</i>                                  | <i>Rorippa islandica</i>                              | northern marsh yellowcress   | cress                               |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                       | <i>Rorippa nasturtium-aquaticum</i>                   | watercress                   | watercress                          |
| ROTE2       | <i>Rorippa teres</i>                                      | <i>Rorippa obtusa</i>                                 | southern marsh yellowcress   | watercress                          |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>fernaldiana</i>          | <i>Rorippa palustris</i> subsp. <i>glabra</i>         | Fernald's yellowcress        | yellow cress                        |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>              | <i>Rorippa palustris</i> subsp. <i>hispida</i>        | hispid yellowcress           | yellow cress                        |
| ROSI2       | <i>Rorippa sinuata</i>                                    | <i>Rorippa sinuata</i>                                | spreading yellowcress        | cress                               |
| ROSY        | <i>Rorippa sylvestris</i>                                 | <i>Rorippa sylvestris</i>                             | creeping yellowcress         | yellow cress                        |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>              | <i>Rorippa truncata</i>                               |                              | field cress                         |
| RONU        | <i>Rosa nutkana</i>                                       | <i>Rosa nutkana</i>                                   | Nootka rose                  | Nootka rose                         |

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| USDA Symbol | USDA NRCS PLANTS                                       | Martin and Hutchins (1980)                               | Common Name from NRCS PLANTS | Common Name from Southwestern Texts |
|-------------|--------------------------------------------------------|----------------------------------------------------------|------------------------------|-------------------------------------|
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>arizonica</i>                | Woods' rose                  | Arizona rose                        |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>fendleri</i>                 | Woods' rose                  | Fendler rose                        |
| RUPA        | <i>Rubus parviflorus</i>                               | <i>Rubus parviflorus</i>                                 | thimbleberry                 | western thimbleberry                |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>              | <i>Rubus strigosus</i> var. <i>arizonicus</i>            | grayleaf red raspberry       | red raspberry                       |
| RUHI2       | <i>Rudbeckia hirta</i>                                 | <i>Rudbeckia hirta</i>                                   | blackeyed Susan              | black-eyed Susan                    |
| RULA3       | <i>Rudbeckia laciniata</i>                             | <i>Rudbeckia laciniata</i>                               | cutleaf coneflower           | cutleaf coneflower                  |
| RUAC3       | <i>Rumex acetosella</i>                                | <i>Rumex acetosella</i>                                  | common sheep sorrel          | sheep sorrel                        |
| RUCR        | <i>Rumex crispus</i>                                   | <i>Rumex crispus</i>                                     | curly dock                   | curlyleaf dock                      |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex mexicanus</i>                                   | Mexican dock                 | dock                                |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                | western dock                 | western dock                        |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   | patience dock                | patient dock                        |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             | Mexican dock                 | dock                                |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    | Bebbwillow                   | Bebbwillow                          |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     | greenleafwillow              | whiplashwillow                      |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      | sandbarwillow                | sandbar willow; coyote willow       |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    | sandbarwillow                | willow; blue-stemmed willow         |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 | Scouler's willow             | scoulerwillow                       |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  | introduced sage              | sage                                |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    | lanceleaf sage               | Rocky Mountain sage                 |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  | sawtooth sage                | sage                                |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              |                              | blackbead elder                     |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |                              | Rocky Mountain elderberry           |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                | Albert's creeping zinnia     | sanvitalia                          |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             | bouncingbet                  | soapwort; bouncing bet              |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           | greasewood                   | greasewood                          |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> | matted saxifrage             | spotted saxifrage                   |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              | diamondleaf saxifrage        | saxifrage                           |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         | tumblegrass                  | tumblegrass                         |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           | false melic                  | false melic                         |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           | burrograss                   | false needlegrass                   |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              |                              | California bulrush                  |
| SECO        | <i>Sedum cockerellii</i>                               | <i>Sedum cockerellii</i>                                 | Cockerell's stonecrop        | stonecrop                           |
| SEAR3       | <i>Senecio arizonicus</i>                              | <i>Senecio arizonicus</i>                                | Arizona ragwort              | Arizona bitterweed                  |
| SEAT        | <i>Senecio atratus</i>                                 | <i>Senecio atratus</i>                                   | tall blacktip ragwort        | butterweed                          |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>         | <i>Senecio bigelovii</i> var. <i>bigelovii</i>           | Biglow's ragwort             | Bigelowbuttweed                     |
| SECR        | <i>Senecio crassulus</i>                               | <i>Senecio crassulus</i>                                 | thickleaf groundsel          | groundsel; butterweed               |
| SECY        | <i>Senecio cymbalarioides</i>                          | <i>Senecio cymbalarioides</i>                            | cleftleaf groundsel          | butterweed; groundsel               |

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| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>        | <i>Senecio douglasii</i> var. <i>longilobus</i>     | threadleaf groundsel         | threadleaf groundsel; threadleaf butterweed         |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougallii</i>   | <i>Senecio eremophilus</i> var. <i>macdougallii</i> | MacDougal's groundsel        | groundsel; butterweed                               |
| SEENEN      | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>                           | New Mexico groundsel         | groundsel                                           |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>                             | Fendler's ragwort            | notchleaf groundsel                                 |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                       |                              | groundsel; butterweed                               |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                         | lobeleaf groundsel           | groundsel; butterweed                               |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>                         | New Mexico groundsel         | New Mexico butterweed                               |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>                          | balsam groundsel             | groundsel                                           |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>                         | falsegold groundsel          | groundsel; butterweed                               |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>                          | broom groundsel              | broom butterweed                                    |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>                         | arrowleaf groundsel          | arrowleaf butterweed                                |
| SEWE2       | <i>Senecio wemeriiifolius</i>                         | <i>Senecio wemeriiifolius</i>                       | hoary groundsel              | groundsel; butterweed                               |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                             | Wooton's ragwort             | Wooton butterweed                                   |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                           | yellow bristleglass          | knotroot bristleglass                               |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                            | American fountaingrass       | yellow bristleglass                                 |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                         | rabo de ardilla              | plains bristleglass                                 |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                              | green bristleglass           | green brittlegrass                                  |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                             | white checkermallow          | white prairie mallow                                |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                            | sleepy silene                | sleepy catchfly                                     |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                            | nightflowering silene        | night-flowering catchfly                            |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                              | Scouler's campion            | catchfly                                            |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                        | tall tumbledustard           | tumble mustard                                      |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                             | Londonrocket                 | yellow rocket                                       |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                        | flaxleaf plainsmustard       | tumble mustard                                      |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                        | dwarf blue-eyed grass        | blue-eyed grass                                     |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>                        | mountain blue-eyed grass     | blue-eyed grass                                     |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystrix</i>                             |                              | bottlebrush squirreltail                            |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>    | <i>Smilacina racemosa</i>                           | feather Solomon's seal       | false Solomon's seal                                |
| MAST4       | <i>Maianthemum stellatum</i>                          | <i>Smilacina stellata</i>                           | starry false Solomon's seal  | star flower                                         |
| SOAM        | <i>Solanum americanum</i>                             | <i>Solanum americanum</i>                           | American black nightshade    | common nightshade                                   |
| SODO        | <i>Solanum douglasii</i>                              | <i>Solanum douglasii</i>                            | greenspot nightshade         | Arizona nightshade; Douglas nightshade              |
| SOEL        | <i>Solanum elaeagnifolium</i>                         | <i>Solanum elaeagnifolium</i>                       | silverleaf nightshade        | horse-nettle; silver nettle; silver-leaf nightshade |
| SOJA        | <i>Solanum jamesii</i>                                | <i>Solanum jamesii</i>                              | wild potato                  | wild potato                                         |
| SOPT3       | <i>Solanum pychanthum</i>                             | <i>Solanum nigrum</i>                               | nightshade                   | black nightshade                                    |
| SORO        | <i>Solanum rostratum</i>                              | <i>Solanum rostratum</i>                            | buffalobur nightshade        | buffaloberry; buffalo bur                           |



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| SOSA        | <i>Solanum sarrachoides</i>                                     | <i>Solanum sarachoides</i>                            | nightshade                   | nightshade                                    |
| SOTR        | <i>Solanum triflorum</i>                                        | <i>Solanum triflorum</i>                              | cutleaf nightshade           | cutleaf nightshade                            |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             | Canada goldenrod             | tall goldenrod                                |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     | Canada goldenrod             | Canada goldenrod                              |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> | shorthair goldenrod          | Canadian goldenrod                            |
| SOMO        | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                | velvety goldenrod            | goldenrod                                     |
| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          | mountain goldenrod           | alpine goldenrod                              |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          | western goldentop            | western goldenrod                             |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               | showy goldenrod              | pale goldenrod                                |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            | grassy rockgoldenrod         | goldenrod                                     |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           | threenerve goldenrod         | few-flowered goldenrod                        |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    | Mt. Albert goldenrod         | dwarf alpine goldenrod                        |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         | Wright's goldenrod           | Wright's goldenrod                            |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  | spiny sowthistle             | prickly sow-thistle; spiny-leaved sow-thistle |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              | common sowthistle            | common sow-thistle                            |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            | silky sophora                | silky sophora                                 |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             | yellow Indiangrass           | Indian grass                                  |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             | salt sandspurry              | sand spurry                                   |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> | copper globemallow           | narrowleaf globe mallow                       |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         | scarlet globemallow          | red globe mallow                              |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      | Fendler's globemallow        | Fendler globe mallow                          |
| SPIN2       | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             | gray globemallow             | globe mallow                                  |
| SPIN3       | <i>Sphenopholis intermedia</i>                                  | <i>Sphenopholis intermedia</i>                        | slender wedgescale           | slender wedgegrass                            |
| SPAI        | <i>Sporobolus airoides</i>                                      | <i>Sporobolus airoides</i>                            | alkali sacaton               | alkali sacaton                                |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i>             | <i>Sporobolus asper</i>                               | dropseed                     | tail dropseed                                 |
| SPCO4       | <i>Sporobolus contractus</i>                                    | <i>Sporobolus contractus</i>                          | spike dropseed               | spike dropseed                                |
| SPCR        | <i>Sporobolus cryptandrus</i>                                   | <i>Sporobolus cryptandrus</i>                         | sand dropseed                | sand dropseed                                 |
| SPNE        | <i>Sporobolus nealleyi</i>                                      | <i>Sporobolus nealleyi</i>                            | gyp dropseed                 | Nealley dropseed                              |
| SPT5        | <i>Sporobolus texanus</i>                                       | <i>Sporobolus texanus</i>                             | Texas dropseed               | Texas dropseed                                |
| STPA        | <i>Stachys palustris</i>                                        | <i>Stachys palustris</i>                              | marsh hedgenettle            | woundwort                                     |
| STPI        | <i>Stanleya pinnata</i>                                         | <i>Stanleya pinnata</i>                               | desert princesplume          | desert plume                                  |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                                | <i>Stellaria jamesiana</i>                            | tuber starwort               | starwort                                      |
| STLO        | <i>Stellaria longifolia</i>                                     | <i>Stellaria longifolia</i>                           | longleaf starwort            | starwort                                      |
| STLO2       | <i>Stellaria longipes</i>                                       | <i>Stellaria longipes</i>                             | longstalk starwort           | chickweed                                     |
| STPA4       | <i>Stephanomeria pauciflora</i>                                 | <i>Stephanomeria pauciflora</i>                       | brownplume wirelettuce       | skeletonweed                                  |
| STTE2       | <i>Stephanomeria tenuifolia</i>                                 | <i>Stephanomeria tenuifolia</i>                       | narrowleaf wirelettuce       | wire-lettuce; skeletonweed                    |

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| ACNE8       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>              | <i>Stipa columbiana</i>                                    |                              | Columbia needlegrass                |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>              | <i>Stipa comata</i>                                        |                              | needle-and-thread grass             |
| ACEM4       | <i>Achnatherum eminens</i>                                 | <i>Stipa eminens</i>                                       |                              | needlegrass                         |
| ACLE9       | <i>Achnatherum lettermanii</i>                             | <i>Stipa lettermanii</i>                                   |                              | Letterman needlegrass               |
| HENE5       | <i>Hesperostipa neomexicana</i>                            | <i>Stipa neomexicana</i>                                   |                              | New Mexico porcupine grass          |
| ACRO7       | <i>Achnatherum robustum</i>                                | <i>Stipa robusta</i>                                       |                              | sleepy grass                        |
| STCO6       | <i>Streptanthus cordatus</i>                               | <i>Streptanthus cordatus</i>                               | heartleaf twistflower        | canyon royalty twistflower          |
| STAM2       | <i>Streptopus amplexifolius</i>                            | <i>Streptopus amplexifolius</i>                            | claspleaf twistedstalk       | twisted stalk                       |
| FRSP        | <i>Frasera speciosa</i>                                    | <i>Swertia radiata</i>                                     | showy frasera                | deer's ears; monument plant         |
| SYOC        | <i>Symphoricarpos occidentalis</i>                         | <i>Symphoricarpos occidentalis</i>                         | western snowberry            | western snowberry                   |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                           | <i>Symphoricarpos oreophilus</i>                           | whortleleaf snowberry        | mountain snowberry                  |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                          | <i>Symphoricarpos rotundifolius</i>                        | coralberry                   | roundleaf snowberry                 |
| TAPA3       | <i>Talinum parviflorum</i>                                 | <i>Talinum parviflorum</i>                                 | sunbright                    | flame flower                        |
| TAGA        | <i>Tamarix gallica</i>                                     | <i>Tamarix gallica</i>                                     | French tamarisk              | tamarisk                            |
| TACH2       | <i>Tamarix chinensis</i>                                   | <i>Tamarix pentandra</i>                                   | fivestamen tamarisk          | salt-cedar; tamarisk                |
| TALA2       | <i>Taraxacum laevigatum</i>                                | <i>Taraxacum laevigatum</i>                                | rock dandelion               | red-seeded dandelion                |
| TAOF        | <i>Taraxacum officinale</i>                                | <i>Taraxacum officinale</i>                                | common dandelion             | common dandelion                    |
| TECA2       | <i>Tetradymia canescens</i>                                | <i>Tetradymia canescens</i>                                | spineless horsebrush         | horsebrush                          |
| TECA2       | <i>Tetradymia canescens</i>                                | <i>Tetradymia canescens</i> var. <i>inermis</i>            | spineless horsebrush         | yellow-flowered horsebrush          |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | Fendler's meadowrue          | Fendler meadowrue                   |
| THFI        | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      | stiff greenthread            | greenthread                         |
| THME        | <i>Thelesperma megapotamicum</i>                           | <i>Thelesperma megapotamicum</i>                           | Hopi tea greenthread         | india tea; cota                     |
| THFI        | <i>Thelesperma filifolium</i> var. <i>filifolium</i>       | <i>Thelesperma trifidum</i>                                | stiff greenthread            | greenthread                         |
| THIN1       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i> | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> | entireleaved thelypody       | smooth thelypody                    |
| THWR        | <i>Thelypodium wrightii</i>                                | <i>Thelypodium wrightii</i>                                | Wright's thelypody           | Wright's thelypody                  |
| THMO6       | <i>Thermopsis montana</i>                                  | <i>Thermopsis montanum</i>                                 |                              | mountain golden-pea                 |
| THDI4       | <i>Thermopsis divaricarpa</i>                              | <i>Thermopsis pinetorum</i>                                |                              | big goldenpea                       |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>               | <i>Thlaspi alpestre</i>                                    | alpine pennycress            | wild candytuff                      |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>         | <i>Torreyochloa pauciflora</i>                             | pale false mannagrass        | manna grass                         |
| TOAN        | <i>Townsendia annua</i>                                    | <i>Townsendia annua</i>                                    | annual townsend daisy        | Townsend's aster                    |
| TOEX        | <i>Townsendia eximia</i>                                   | <i>Townsendia eximia</i>                                   | tall townsendia              | Townsend's aster                    |
| TOFO        | <i>Townsendia formosa</i>                                  | <i>Townsendia formosa</i>                                  | smooth townsend daisy        | Townsend's aster                    |
| TOIN        | <i>Townsendia incana</i>                                   | <i>Townsendia incana</i>                                   | hoary townsendia             | Townsend's aster                    |
| TOEX2       | <i>Townsendia exscapa</i>                                  | <i>Townsendia escapa</i>                                   | stemless townsendia          | Easter daisy                        |
| TRNE        | <i>Tragia nepetifolia</i>                                  | <i>Tragia nepetaefolia</i>                                 | catnip noseburn              | noseburn                            |
| TRDU        | <i>Tragopogon dubius</i>                                   | <i>Tragopogon dubius</i>                                   | yellow salsify               | goatsbeard; yellow salsify          |
| TRPR        | <i>Tragopogon pratensis</i>                                | <i>Tragopogon pratensis</i>                                | meadow salsify               | meadow goatsbeard                   |

### COMMON NAMES CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                           | Common Name from NRCS PLANTS | Common Name from Southwestern Texts    |
|-------------|-------------------------------------------------------------|------------------------------------------------------|------------------------------|----------------------------------------|
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                         | western bugbane              | false bugbane                          |
| TRTE        | <i>Tribulus terrestris</i>                                  | <i>Tribulus terrestris</i>                           | puncturevine                 | goathead; puncture vine                |
| ERPU8       | <i>Erioneuron pulchellum</i>                                | <i>Tridens pulchellus</i>                            | low woollygrass              | fluffgrass                             |
| TRDA2       | <i>Trifolium dasyphyllum</i>                                | <i>Trifolium dasyphyllum</i>                         | alpine clover                | alpine clover                          |
| TRHY        | <i>Trifolium hybridum</i>                                   | <i>Trifolium hybridum</i>                            | alsike clover                | alsike clover                          |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>             | <i>Trifolium lacerum</i>                             | spinytooth clover            | clover                                 |
| TRPR2       | <i>Trifolium pratense</i>                                   | <i>Trifolium pratense</i>                            | red clover                   | red clover                             |
| TRCA5       | <i>Trifolium campestre</i>                                  | <i>Trifolium procumbens</i>                          | field clover                 | low hop-clover                         |
| TRRE3       | <i>Trifolium repens</i>                                     | <i>Trifolium repens</i>                              | white clover                 | white clover                           |
| TRPE4       | <i>Triodanis perfoliata</i>                                 | <i>Triodanis perfoliata</i>                          | clasping Venus' lookingglass | Venus' lookIng-glass                   |
| TRMO5       | <i>Trisetum montanum</i>                                    | <i>Trisetum montanum</i>                             | Rocky Mountain trisetum      | Rocky Mountain trisetum                |
| TRSP2       | <i>Trisetum spicatum</i>                                    | <i>Trisetum spicatum</i>                             | spike trisetum               | spike oats                             |
| TYLA        | <i>Typha latifolia</i>                                      | <i>Typha latifolia</i>                               | broadleaf cattail            | broad-leaved cattail                   |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                   | <i>Urtica dioica-procera</i>                         | California nettle            | nettle; stinging nettle                |
| URGR        | <i>Urtica gracilentia</i>                                   | <i>Urtica gracilentia</i>                            | mountain nettle              | nettle; stinging nettle                |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                   | <i>Urtica gracilis</i>                               | California nettle            | nettle; stinging nettle                |
| VAMY2       | <i>Vaccinium myrtillus</i>                                  | <i>Vaccinium myrtillus</i>                           | whortleberry                 | myrtle wortleberry                     |
| VAAR3       | <i>Valeriana arizonica</i>                                  | <i>Valeriana arizonica</i>                           | Arizona valerian             | Arizona valerian                       |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>            | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    | sharpleaf valerian           | valerian; tobacco root                 |
| VECA2       | <i>Veratrum californicum</i>                                | <i>Veratrum californicum</i>                         | California false hellebore   | skunk-cabbage; corn-lily               |
| VETH        | <i>Verbascum thapsus</i>                                    | <i>Verbascum thapsus</i>                             | common mullein               | mullein; miner's candle                |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i>  | <i>Verbena bipinnatifida</i>                         | Dakota mock vervain          | Dakota vervain                         |
| VEBR        | <i>Verbena bracteata</i>                                    | <i>Verbena bracteata</i>                             | bigbract verbena             | prostrate vervain                      |
| VEBR        | <i>Verbena bracteata</i>                                    | <i>Verbena imbricata</i>                             | bigbract verbena             | vervain                                |
| VEMA        | <i>Verbena macdougalii</i>                                  | <i>Verbena macdougalii</i>                           | MacDougal verbena            | New Mexico vervain                     |
| GLWR        | <i>Glandularia wrightii</i>                                 | <i>Verbena wrightii</i>                              | Davis Mountain mock vervain  | Wright's vervain; desert verbena       |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>        | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> | golden crownbeard            | crownbeard                             |
| VEAM2       | <i>Veronica americana</i>                                   | <i>Veronica americana</i>                            | American speedwell           | American brooklime; American speedwell |
| VEAR        | <i>Veronica arvensis</i> L.                                 | <i>Veronica arvensis</i>                             | corn speedwell               | corn speedwell                         |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>            | <i>Veronica peregrina</i> var. <i>xalapensis</i>     | hairy purslane speedwell     | Mexican speedwell; purslane speedwell  |
| VESE        | <i>Veronica serpyllifolia</i>                               | <i>Veronica serpyllifolia</i>                        | thymeleaf speedwell          | thyme-leaved speedwell                 |
| VEWO2       | <i>Veronica wormskjoldii</i>                                | <i>Veronica wormskjoldii</i>                         | American alpine speedwell    | alpine speedwell                       |
| VILE        | <i>Viburnum lentago</i>                                     | <i>Viburnum lentago</i>                              | nannyberry                   | viburnum                               |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>                | <i>Vicia americana</i> var. <i>americana</i>         | American vetch               | American vetch                         |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                    | <i>Vicia americana</i> var. <i>linearis</i>          | mat vetch                    | narrow-leaved vetch                    |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                    | <i>Vicia americana</i> var. <i>minor</i>             | mat vetch                    | vetch                                  |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>            | <i>Vicia exigua</i>                                  | slim vetch                   | slim vetch                             |

### COMMON NAMES CON'T

| USDA Symbol | USDA NRCS PLANTS                                    | Martin and Hutchins (1980)                       | Common Name from NRCS PLANTS | Common Name from Southwestern Texts |
|-------------|-----------------------------------------------------|--------------------------------------------------|------------------------------|-------------------------------------|
| VILE3       | <i>Vicia leucophaea</i>                             | <i>Vicia leucophaea</i>                          | Mogollon Mountain vetch      | Mogollon vetch                      |
| VICO        | <i>Viguiera cordifolia</i>                          | <i>Viguiera cordifolia</i>                       | heartleaf goldeneye          | goldeneye                           |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i> | <i>Viguiera multiflora</i>                       | showy goldeneye              | goldeneye                           |
| VIAD        | <i>Viola adunca</i>                                 | <i>Viola adunca</i>                              | hookedspur violet            | western dog violet                  |
| VICA4       | <i>Viola canadensis</i>                             | <i>Viola canadensis</i>                          | Canadian white violet        | Canadian violet                     |
| VISO        | <i>Viola sororia</i>                                | <i>Viola nephrophylla</i>                        | common blue violet           | northern bog violet                 |
| VIPE2       | <i>Viola pedatifida</i>                             | <i>Viola pedatifida</i>                          | prairie violet               | larkspur violet                     |
| VIAR2       | <i>Vitis arizonica</i>                              | <i>Vitis arizonica</i> var. <i>arizonica</i>     | canyon grape                 | canyon grape; Arizona grape         |
| VIVU        | <i>Vitis vulpina</i>                                | <i>Vitis vulpina</i>                             | frost grape                  | frost grape                         |
|             |                                                     | <i>Woodsia mexicana</i>                          |                              | Mexican woodsia                     |
| WOOR        | <i>Woodsia oregana</i>                              | <i>Woodsia oregana</i>                           | Oregon woodsia               | woodsia                             |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i>    | <i>Xanthium strumarium</i> var. <i>canadense</i> | Canada cocklebur             | cocklebur                           |
| YUAN2       | <i>Yucca angustissima</i>                           | <i>Yucca angustissima</i>                        | narrowleaf yucca             | narrowleaf yucca                    |
| YUBA        | <i>Yucca baccata</i>                                | <i>Yucca baccata</i>                             | banana yucca                 | banana yucca; datil                 |
| YUGL        | <i>Yucca glauca</i>                                 | <i>Yucca glauca</i>                              | small soapweed               | soapweed yucca                      |
| ZIGR        | <i>Zinnia grandiflora</i>                           | <i>Zinnia grandiflora</i>                        | Rocky Mountain zinnia        | Rocky Mountain zinna                |
| ZIEL2       | <i>Zigadenus elegans</i>                            | <i>Zygadenus elegans</i>                         | mountain deathcamas          | death camas                         |

**Key for heading acronyms and abbreviations:**

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

## ELEVATION



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## ELEVATION

| USDA Symbol* | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                            | Habitat                                                                  | Min Elev (ft) | Max Elev (ft) |
|--------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|---------------|---------------|
| BOWR2        | <i>Bothriochloa wrightii</i>                          | <i>Andropogon wrightii</i>                            | Dry mesas and canyons                                                    | 4500          | 7000          |
| ASSH3        | <i>Astragalus shortianus</i>                          | <i>Astragalus shortianus</i>                          | Mesas, rocky slopes                                                      | 5000          | 9000          |
| CHGL3        | <i>Chenopodium glaucum</i>                            | <i>Chenopodium glaucum</i>                            | Disturbed soil                                                           | 5000          | 7000          |
| ERLE9        | <i>Eriogonum leptocladon</i>                          | <i>Eriogonum leptocladon</i>                          | Sandy plains                                                             | 5000          | 6000          |
| FAPA         | <i>Fallugia paradoxa</i>                              | <i>Fallugia paradoxa</i>                              | Disturbed soil, canyon sides; juniper grassland, pinyon-juniper woodland | 5000          | 7000          |
| HOBR2        | <i>Hordeum brachyantherum</i>                         | <i>Hordeum brachyantherum</i>                         | Meadows                                                                  | 5000          | 10000         |
| LICO7        | <i>Lithospermum cobrense</i>                          | <i>Lithospermum cobrense</i>                          | Wooded slopes                                                            | 5000          | 9000          |
| MAVU         | <i>Marrubium vulgare</i>                              | <i>Marrubium vulgare</i>                              | Moist ground, disturbed soil                                             | 5000          | 7500          |
| MERU         | <i>Mentzelia rusbyi</i>                               | <i>Mentzelia rusbyi</i>                               | Moist mountain slopes                                                    | 5000          | 8000          |
| DRPA2        | <i>Dracocephalum parviflorum</i>                      | <i>Moldavica parviflora</i>                           | Mesas and canyons                                                        | 5000          | 8500          |
| PEMUM        | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>        | <i>Pellaea longimucronata</i>                         | Rocky areas, especially along cliffs                                     | 5000          | 7000          |
| PHEG         | <i>Phacelia egea</i>                                  | <i>Phacelia magellanica</i>                           | Rich moist soil in coniferous forests, along streams                     | 5000          | 9000          |
| POPA2        | <i>Poa palustris</i>                                  | <i>Poa palustris</i>                                  | Meadows                                                                  | 5000          | 11000         |
| RACYS        | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> | Moist soil, along streams                                                | 5000          | 8000          |
| SCPA         | <i>Schedonnardus paniculatus</i>                      | <i>Schedonnardus paniculatus</i>                      | Mesas                                                                    | 5000          | 7000          |
| SEPA10       | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                             | Sandy soil                                                               | 5000          | 7500          |
| SPCOC2       | <i>Sporobolus compositus</i> var. <i>compositus</i>   | <i>Sporobolus asper</i>                               | Open slopes                                                              | 5000          | 6000          |
| ACLE9        | <i>Achnatherum lettermanii</i>                        | <i>Stipa lettermanii</i>                              | Meadows                                                                  | 5000          | 8000          |
| HENE5        | <i>Hesperostipa neomexicana</i>                       | <i>Stipa neomexicana</i>                              | Dry mesas                                                                | 5000          | 7000          |
| ERPU8        | <i>Erioneuron pulchellum</i>                          | <i>Tridens pulchellus</i>                             | Dry mesas and hills                                                      | 5000          | 5500          |
| AGST2        | <i>Agrostis stolonifera</i>                           | <i>Agrostis stolonifera</i>                           | Moist canyon bottoms and mountain slopes                                 | 5300          | 9000          |
| AMHY2        | <i>Amaranthus hypochondriacus</i> L.                  | <i>Amaranthus leucocarpus</i>                         | Disturbed canyon bottoms, periodically flooded by lake waters            | 5300          | 5300          |
| ASBI2        | <i>Astragalus bisulcatus</i>                          | <i>Astragalus bisulcatus</i>                          | Disturbed canyon bottoms, periodically flooded by lake waters            | 5300          | 5300          |
| BIFR         | <i>Bidens frondosa</i>                                | <i>Bidens frondosa</i>                                | Disturbed canyon bottoms, periodically flooded by lake waters            | 5300          | 5300          |
| DISP         | <i>Distichlis spicata</i>                             | <i>Distichlis stricta</i>                             | Sandy canyon bottoms, riverside                                          | 5300          | 5300          |
| GIFLA        | <i>Gilia flavocincta</i> ssp. <i>australis</i>        | <i>Gilia flavocincta</i> subsp. <i>australis</i>      | Canyon bottoms and slopes                                                | 5300          | 6300          |
| CYBI6        | <i>Cyperus bipartitus</i>                             | <i>Cyperus rivularis</i>                              | Moist, disturbed canyon bottoms, periodically flooded by lake waters     | 5360          | 5360          |
| ERCU2        | <i>Eragrostis curvula</i>                             | <i>Eragrostis curvula</i>                             | Disturbed canyon bottoms, periodically flooded by lake waters            | 5360          | 5360          |

\* A key for heading acronyms and abbreviations is on the last page of this table.

## ELEVATION CON'T

| USDA Symbol      | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                          | Habitat                                                                        | Min Elev (ft) | Max Elev (ft) |
|------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------|---------------|---------------|
| ERHY             | <i>Eragrostis hypnoides</i>                                                            | <i>Eragrostis hypnoides</i>                         | Disturbed canyon bottoms, periodically flooded by lake waters                  | 5360          | 5360          |
| GNEX             | <i>Gnaphalium exilifolium</i>                                                          | <i>Gnaphalium grayi</i>                             | Disturbed canyon bottoms, periodically flooded by lake waters                  | 5360          | 5360          |
| GNPA             | <i>Gnaphalium palustre</i>                                                             | <i>Gnaphalium palustre</i>                          | Disturbed canyon bottoms, periodically flooded by lake waters                  | 5360          | 5360          |
| JUXI             | <i>Juncus xiphioides</i>                                                               | <i>Juncus xiphioides</i>                            | Moist canyon bottoms, canyon slopes and mountain slopes                        | 5360          | 9700          |
| RASCM            | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>                                    | <i>Ranunculus sceleratus</i> var. <i>multifidus</i> | Wet canyon slopes, periodically flooded by lake waters                         | 5360          | 5500          |
| ROPAF2           | <i>Rorippa palustris</i> ssp. <i>feraldiana</i>                                        | <i>Rorippa palustris</i> subsp. <i>glabra</i>       | Moist canyon bottoms                                                           | 5360          | 5900          |
| ROPAH            | <i>Rorippa palustris</i> ssp. <i>hispida</i>                                           | <i>Rorippa palustris</i> subsp. <i>hispida</i>      | Disturbed canyon bottoms, periodically flooded by lake waters                  | 5360          | 5360          |
| ROCUT            | <i>Rorippa curvipes</i> var. <i>truncata</i>                                           | <i>Rorippa truncata</i>                             | Disturbed canyon bottoms, periodically flooded by lake waters                  | 5360          | 5400          |
| SPSAS            | <i>Spergularia salina</i> var. <i>salina</i>                                           | <i>Spergularia marina</i>                           | Disturbed canyon bottoms, periodically flooded by lake waters                  | 5360          | 5400          |
| ACNEI2           | <i>Acer negundo</i> var. <i>interius</i>                                               | <i>Acer negundo</i> var. <i>interius</i>            | Along streams and other moist areas                                            | 5400          | 7000          |
| AGDE2            | <i>Agropyron desertorum</i>                                                            | <i>Agropyron desertorum</i>                         | Disturbed soil; juniper grassland, pinyon-juniper woodland                     | 5400          | 8000          |
| AIAL             | <i>Ailanthus altissima</i>                                                             | <i>Ailanthus altissima</i>                          | Disturbed soil, around abandoned buildings                                     | 5400          | 7000          |
| AMAL; AMBL       | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>                        | Disturbed soil                                                                 | 5400          | 8000          |
| AMHY             | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                          | Disturbed soil                                                                 | 5400          | 8000          |
| AMPA             | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                           | Disturbed soil; riverbanks                                                     | 5400          | 6000          |
| AMRE             | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>                       | Disturbed soil; moist ground                                                   | 5400          | 8000          |
| AMAR; AMBI; AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                           | Dry sandy soil                                                                 | 5400          | 7000          |
| AMPS             | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>                        | Disturbed soil and Dry-moist-wet                                               | 5400          | 7500          |
| AMCA6            | <i>Amorpha canescens</i>                                                               | <i>Amorpha canescens</i>                            | Dry mesas                                                                      | 5400          | 6000          |
| AMFR             | <i>Amorpha fruticosa</i>                                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i>   | Banks of the Rio Grande                                                        | 5400          | 6000          |
| AMNA             | <i>Amorpha nana</i>                                                                    | <i>Amorpha nana</i>                                 | Mesas and slopes                                                               | 5400          | 6500          |
| ANAR             | <i>Anagallis arvensis</i>                                                              | <i>Anagallis arvensis</i>                           | Disturbed soil                                                                 | 5400          | 7000          |
| BOBAB            | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>                                  | <i>Andropogon barbinodis</i>                        | Canyons and mesas                                                              | 5400          | 8500          |
| ANGE             | <i>Andropogon gerardii</i>                                                             | <i>Andropogon gerardii</i>                          | Mesas                                                                          | 5400          | 7500          |
| ANHA             | <i>Andropogon hallii</i>                                                               | <i>Andropogon hallii</i>                            | Canyon rims and adjacent mesas                                                 | 5400          | 6500          |
| BOSA             | <i>Bothriochloa saccharoides</i>                                                       | <i>Andropogon saccharoides</i>                      | pinyon-juniper woodland                                                        | 5400          | 7500          |
| SCSCS2           | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>                                   | <i>Andropogon scoparius</i>                         | Canyons, mesas; juniper grassland, pinyon-juniper woodland, ponderosa pine for | 5400          | 8000          |
| BOSP3            | <i>Bothriochloa springfieldii</i>                                                      | <i>Andropogon springfieldii</i>                     | Dry mesas and canyons                                                          | 5400          | 6000          |

## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                       | Habitat                                                                         | Min Elev (ft) | Max Elev (ft) |
|-------------|-------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------|---------------|---------------|
| ANCR2       | <i>Anoda cristata</i>                                 | <i>Anoda cristata</i> var. <i>digitata</i>       | Moist ground, often near streams                                                | 5400          | 6500          |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i> | <i>Aphanostephus arizonicus</i>                  | Dry canyon bottoms                                                              | 5400          | 5400          |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>           | <i>Arabis fendleri</i> var. <i>fendleri</i>      | Rocky slopes; pinyon-juniper woodland, ponderosa pine and mixed conifer forests | 5400          | 8000          |
| ARGL        | <i>Arabis glabra</i>                                  | <i>Arabis glabra</i>                             | Mesas and mountains                                                             | 5400          | 9000          |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>      | <i>Arabis holboellii</i> var. <i>retrofracta</i> | Dry canyon bottoms; pinyon-juniper woodland                                     | 5400          | 6000          |
| ARPE2       | <i>Arabis perennans</i>                               | <i>Arabis perennans</i>                          | Dry slopes                                                                      | 5400          | 8500          |
| ARDI3       | <i>Arceuthobium divaricatum</i>                       | <i>Arceuthobium divaricatum</i>                  | Parasitic on pinyon pines                                                       | 5400          | 7000          |
| ARPU5       | <i>Arctostaphylos pungens</i>                         | <i>Arctostaphylos pungens</i>                    | Abundant on rocky slopes                                                        | 5400          | 8000          |
| ARAD        | <i>Aristida adscensionis</i>                          | <i>Aristida adscensionis</i>                     | Canyon bottoms and sides, dry mesas; juniper grassland, pinyon-juniper          | 5400          | 7500          |
| ARAR6       | <i>Aristida arizonica</i>                             | <i>Aristida arizonica</i>                        | Mesas and canyons                                                               | 5400          | 8000          |
| ARHA3       | <i>Aristida havardii</i>                              | <i>Aristida barbata</i>                          | Disturbed soils, old fields, mesas                                              | 5400          | 7500          |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>      | <i>Aristida fendleriana</i>                      | Dry mesas                                                                       | 5400          | 7000          |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>        | <i>Aristida longiseta</i>                        | Dry canyon bottoms, disturbed soil; juniper grassland                           | 5400          | 6000          |
| ARPU9       | <i>Aristida purpurea</i>                              | <i>Aristida purpurea</i>                         | Dry canyons and mesas                                                           | 5400          | 5400          |
| ARBI3       | <i>Artemisia bigelovii</i>                            | <i>Artemisia bigelovii</i>                       | Dry canyons; juniper grassland                                                  | 5400          | 8000          |
| ARCA13      | <i>Artemisia cana</i>                                 | <i>Artemisia cana</i>                            | Mesas and Dry-moist                                                             | 5400          | 9000          |
| ARCA14      | <i>Artemisia carruthii</i>                            | <i>Artemisia carruthii</i>                       | Mesa, canyons, disturbed soil; juniper grassland, pinyon-juniper woodland       | 5400          | 7000          |
| ARDR4       | <i>Artemisia dracunculus</i>                          | <i>Artemisia dracunculus</i>                     | Disturbed soil, open areas; juniper grassland, pinyon-juniper woodland          | 5400          | 8000          |
| ARFI2       | <i>Artemisia filifolia</i>                            | <i>Artemisia filifolia</i>                       | Canyon bottoms and sides; juniper grassland, pinyon-juniper woodland            | 5400          | 6000          |
| ARFR4       | <i>Artemisia frigida</i>                              | <i>Artemisia frigida</i>                         | Mesas, canyon sides; pinyon-juniper woodland, ponderosa pine forest             | 5400          | 7000          |
| ARTR2       | <i>Artemisia tridentata</i>                           | <i>Artemisia tridentata</i>                      | Mesas, canyons, disturbed soils; pinyon-juniper woodland                        | 5400          | 7000          |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>        | <i>Asclepias asperula</i> subsp. <i>asperula</i> | Mesas and dry canyons; pinyon-juniper woodlands                                 | 5400          | 6500          |
| ASIN14      | <i>Asclepias involucrata</i>                          | <i>Asclepias involucrata</i>                     | Dry mesas, dry canyons; pinyon-juniper woodland, ponderosa pine forest          | 5400          | 7000          |
| ASMA        | <i>Asclepias macrotis</i>                             | <i>Asclepias macrotis</i>                        | Rocky canyons                                                                   | 5400          | 6000          |
| ASSU2       | <i>Asclepias subverticillata</i>                      | <i>Asclepias subverticillata</i>                 | Disturbed soil, roadsides, pinyon-juniper woodland                              | 5400          | 7500          |
| ASOF        | <i>Asparagus officinalis</i>                          | <i>Asparagus officinalis</i>                     | Valleys or roadsides; often loose sandy soil                                    | 5400          | 6000          |
| ASER3       | <i>Aster ericoides</i>                                | <i>Aster ericoides</i>                           | Canyon bottoms; juniper grassland, pinyon-juniper woodland                      | 5400          | 7500          |
| ASFE        | <i>Aster fendleri</i>                                 | <i>Aster fendleri</i>                            | Mesas                                                                           | 5400          | 7000          |
| ASNO        | <i>Aster novae-angliae</i>                            | <i>Aster novae-angliae</i>                       | Disturbed soils; roadsides                                                      | 5400          | 9000          |
| ASPR2       | <i>Aster praealtus</i>                                | <i>Aster praealtus</i>                           | Dry canyons                                                                     | 5400          | 5400          |



## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                                | Habitat                                                                                              | Min Elev (ft) | Max Elev (ft) |
|-------------|-------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------|---------------|
| ASAG2       | <i>Astragalus agrestis</i>                                  | <i>Astragalus agrestis</i>                                | Moist meadows, near streams                                                                          | 5400          | 10000         |
| ASAM5       | <i>Astragalus amphioxys</i>                                 | <i>Astragalus amphioxys</i>                               | Dry mesas                                                                                            | 5400          | 6000          |
| ASCR2       | <i>Astragalus crassicaupus</i>                              | <i>Astragalus crassicaupus.</i>                           | Along roadsides                                                                                      | 5400          | 6000          |
| ASEM2       | <i>Astragalus emoryanus</i>                                 | <i>Astragalus emoryanus</i>                               | Canyons, disturbed soil                                                                              | 5400          | 7000          |
| ASGR3       | <i>Astragalus gracilis</i>                                  | <i>Astragalus gracilis</i>                                | Sandy soil and mesas                                                                                 | 5400          | 7000          |
| ASHU2       | <i>Astragalus humistratus</i>                               | <i>Astragalus humistratus</i>                             | Mesas and slopes                                                                                     | 5400          | 8500          |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i>   | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | Dry canyon sides, mesas tops; pinyon-juniper woodland                                                | 5400          | 6500          |
| ASPR5       | <i>Astragalus praelongus</i>                                | <i>Astragalus praelongus</i>                              | Dry canyon sides, juniper grassland                                                                  | 5400          | 6000          |
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                                 | Disturbed soil, canyon sides; pinyon-juniper woodland                                                | 5400          | 6500          |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                                    | Alkaline soil                                                                                        | 5400          | 6500          |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                                    | Mesas                                                                                                | 5400          | 6500          |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                                     | Disturbed soil; pinyon-juniper woodland                                                              | 5400          | 7000          |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                                  | Sandy soil                                                                                           | 5400          | 7500          |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                                 | Dry hills                                                                                            | 5400          | 6500          |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                               | Dry mesas and canyons; roadsides                                                                     | 5400          | 6000          |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                                | Disturbed soil                                                                                       | 5400          | 7000          |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                                 | Dry canyons; juniper grassland                                                                       | 5400          | 6000          |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                      | Near streams                                                                                         | 5400          | 9000          |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                                   | Canyons, moist soil along streams                                                                    | 5400          | 6500          |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>             | Damp soil, disturbed soil                                                                            | 5400          | 6000          |
| BICE        | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                      | Dry canyon bottoms; juniper grassland, pinyon-juniper woodland                                       | 5400          | 7500          |
| BOCO2       | <i>Boerhavia coulteri</i>                                   | <i>Boerhaavia coulteri</i>                                | Dry washes                                                                                           | 5400          | 5400          |
| BOAR        | <i>Bouteloua aristidoides</i>                               | <i>Bouteloua aristidoides</i>                             | Mesas and canyons                                                                                    | 5400          | 6000          |
| BOCU        | <i>Bouteloua curtipendula</i>                               | <i>Bouteloua curtipendula</i>                             | Canyon sides, mesa tops; juniper grassland                                                           | 5400          | 7000          |
| BOER4       | <i>Bouteloua eriopoda</i>                                   | <i>Bouteloua eriopoda</i>                                 | Dry canyons sides, mesa tops, juniper grassland                                                      | 5400          | 6000          |
| BOGR2       | <i>Bouteloua gracilis</i>                                   | <i>Bouteloua gracilis</i>                                 | Canyon bottoms and sides, mesas, mountains, juniper grassland, pinyon-juniper woodland, pine forests | 5400          | 8500          |
| BOHI2       | <i>Bouteloua hirsuta</i>                                    | <i>Bouteloua hirsuta</i>                                  | Dry mesas, and canyons; juniper grassland, pinyon-juniper woodland                                   | 5400          | 7000          |
| BRNI        | <i>Brassica nigra</i>                                       | <i>Brassica nigra</i>                                     | Roadsides and disturbed soil                                                                         | 5400          | 7000          |
| BRBE        | <i>Brickellia betonicifolia</i>                             | <i>Brickellia betonicaefolia</i>                          | Dry hills, often in grassy, bushy areas                                                              | 5400          | 5500          |
| BRBR2       | <i>Brickellia brachyphylla</i>                              | <i>Brickellia brachyphylla</i>                            | ponderosa pine forest                                                                                | 5400          | 7500          |
| BRCA3       | <i>Brickellia californica</i>                               | <i>Brickellia californica</i>                             | Canyon sides; juniper grassland, pinyon-juniper woodland, ponderosa pine forest                      | 5400          | 8000          |
| BRAN        | <i>Bromus anomalus</i>                                      | <i>Bromus anomalus</i>                                    | Dry canyon sides, mountain slopes, meadows                                                           | 5400          | 10000         |
| BRJA        | <i>Bromus japonicus</i>                                     | <i>Bromus japonicus</i>                                   | Disturbed soil                                                                                       | 5400          | 7500          |

# ELEVATION CON'T

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|-------------|-------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|---------------|
| BRKA2       | <i>Bromus kalmii</i>                                                    | <i>Bromus purgans</i>                                     | Moist or rocky slopes                                                                | 5400          | 10000         |
| BRTE        | <i>Bromus tectorum</i>                                                  | <i>Bromus tectorum</i>                                    | Disturbed soil; juniper grassland, pinyon-juniper woodland, ponderosa pine forest    | 5400          | 7500          |
| CAHA14      | <i>Calylophus hartwegii</i>                                             | <i>Calylophus hartwegii</i>                               | Canyon bottoms, mesa tops; juniper grassland, pinyon-juniper woodland                | 5400          | 6500          |
| CAMI2       | <i>Camelina microcarpa</i>                                              | <i>Camelina microcarpa</i>                                | Disturbed soil, often fields or along roadsides                                      | 5400          | 7500          |
| CABU2       | <i>Capsella bursa-pastoris</i>                                          | <i>Capsella bursa-pastoris</i>                            | Disturbed soil, canyons, roadsides; juniper grassland, pinyon-juniper, mixed conifer | 5400          | 9500          |
| CAHY4       | <i>Carex hystericina</i>                                                | <i>Carex hystericina</i>                                  | Moist canyons, streamside and wet canyon slopes                                      | 5400          | 6500          |
| CANE2       | <i>Carex nebraskensis</i>                                               | <i>Carex nebraskensis</i>                                 | Marshy meadows                                                                       | 5400          | 9000          |
| CAPR5       | <i>Carex praegracilis</i>                                               | <i>Carex praegracilis</i>                                 | Moist ground and meadows                                                             | 5400          | 9500          |
| CAST5       | <i>Carex stipata</i>                                                    | <i>Carex stipata</i>                                      | Marshy meadows                                                                       | 5400          | 9000          |
| CAIN14      | <i>Castilleja integra</i>                                               | <i>Castilleja integra</i>                                 | Mesas, canyon sides                                                                  | 5400          | 7000          |
| CAMI13      | <i>Castilleja minor</i>                                                 | <i>Castilleja minor</i>                                   | Moist ground                                                                         | 5400          | 7000          |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>                          | <i>Celtis reticulata</i>                                  | Along the banks of the Rio Grande and lower slopes of White Rock Canyon              | 5400          | 6000          |
| CEEC        | <i>Cenchrus echinatus</i>                                               | <i>Cenchrus echinatus</i>                                 | Along banks of Rio Grande; juniper grassland                                         | 5400          | 5400          |
| CECA3       | <i>Centaurium calycosum</i>                                             | <i>Centaurium calycosum</i>                               | Sandy soil, Rio Grande banks; juniper grassland                                      | 5400          | 5400          |
| CHCO        | <i>Chamaesaracha conioides</i>                                          | <i>Chamaesaracha conioides</i>                            | Dry canyon bottoms, disturbed soil                                                   | 5400          | 6000          |
| CHCO2       | <i>Chamaesaracha coronopus</i>                                          | <i>Chamaesaracha coronopus</i>                            | Dry canyons and mesas                                                                | 5400          | 6000          |
| CHFE2       | <i>Cheilanthes fendleri</i>                                             | <i>Cheilanthes fendleri</i>                               | Rocky slopes and ledges, shady slopes                                                | 5400          | 9000          |
| CHEA        | <i>Cheilanthes eatonii</i>                                              | <i>Cheilanthes eatonii</i>                                | Rocky slopes and ledges                                                              | 5400          | 9000          |
| CHAL6       | <i>Chenopodium albescens</i>                                            | <i>Chenopodium albescens</i>                              | Disturbed soil                                                                       | 5400          | 7000          |
| CHBE4       | <i>Chenopodium berlandieri</i>                                          | <i>Chenopodium berlandieri</i>                            | Disturbed soil                                                                       | 5400          | 8000          |
| CHCY        | <i>Chenopodium cycloides</i>                                            | <i>Chenopodium cycloides</i>                              | Moist ground                                                                         | 5400          | 6500          |
| CHDE        | <i>Chenopodium desiccatum</i>                                           | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>      | Disturbed soil                                                                       | 5400          | 8000          |
| CHS12       | <i>Chenopodium simplex</i>                                              | <i>Chenopodium gigantospermum</i>                         | Disturbed soils; spruce-fir forest                                                   | 5400          | 8000          |
| CHIN2       | <i>Chenopodium incanum</i>                                              | <i>Chenopodium incanum</i>                                | Dry plains, jells                                                                    | 5400          | 6500          |
| CHRU        | <i>Chenopodium rubrum</i>                                               | <i>Chenopodium rubrum</i>                                 | Disturbed canyon bottoms, mountain slopes                                            | 5400          | 8900          |
| CHWA        | <i>Chenopodium watsonii</i>                                             | <i>Chenopodium watsonii</i>                               | Dry mesas, canyons                                                                   | 5400          | 7000          |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                          | <i>Chrysopsis villosa</i>                                 | Disturbed dry rocky or sandy soils, juniper grassland, pinyon-juniper, ponderosa     | 5400          | 8000          |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>   | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>    | Disturbed soil; juniper grassland, pinyon-juniper woodland                           | 5400          | 7000          |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i> | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i> | Disturbed soils, mesas, canyons; juniper grassland, pinyon-juniper woodland          | 5400          | 7000          |
| CINE        | <i>Cirsium neomexicanum</i>                                             | <i>Cirsium neomexicanum</i>                               | Mesas                                                                                | 5400          | 6500          |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                             | <i>Cirsium ochrocentrum</i>                               | Mesas and canyons                                                                    | 5400          | 8000          |
| CICA10      | <i>Cirsium calcareum</i>                                                | <i>Cirsium pulchellum</i>                                 | Mountain slopes, canyons                                                             | 5400          | 9000          |

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|---------------|
| CLDR        | <i>Clematis drummondii</i>                                      | <i>Clematis drummondii</i>                                      | Slopes and canyons                                                                | 5400          | 5400          |
| CLSE        | <i>Cleome serrulata</i>                                         | <i>Cleome serrulata</i>                                         | Riverbanks, roadsides, disturbed soil; juniper grassland, pinyon-juniper woodland | 5400          | 7500          |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>                   | <i>Comandra pallida</i>                                         | Canyons and mesas                                                                 | 5400          | 8000          |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>                     | <i>Convolvulus sepium</i>                                       | Fields and disturbed soil; often in saline soils                                  | 5400          | 8000          |
| COCA5       | <i>Conyza canadensis</i>                                        | <i>Conyza canadensis</i>                                        | Disturbed soils, roadsides                                                        | 5400          | 7500          |
| COWR2       | <i>Cordylanthus wrightii</i>                                    | <i>Cordylanthus wrightii</i>                                    | Dry canyon bottoms; juniper grassland, pinyon-juniper woodland                    | 5400          | 6000          |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i>                | <i>Coreopsis cardaminefolia</i>                                 | Mesas and meadows, often low ground                                               | 5400          | 7000          |
| COTI3       | <i>Coreopsis tinctoria</i>                                      | <i>Coreopsis tinctoria</i>                                      | Sandy soil                                                                        | 5400          | 5400          |
| COSA        | <i>Coriandrum sativum</i>                                       | <i>Coriandrum sativum</i>                                       | Disturbed soil                                                                    | 5400          | 6000          |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>                  | <i>Coryphantha vivipara</i>                                     | Mesas and rocky canyons; pinyon-juniper woodland                                  | 5400          | 6500          |
| COPA12      | <i>Cosmos parviflorus</i>                                       | <i>Cosmos parviflorus</i>                                       | Disturbed soils, roadsides                                                        | 5400          | 9000          |
| CRTE4       | <i>Croton texensis</i>                                          | <i>Croton texensis</i>                                          | Disturbed soil                                                                    | 5400          | 7000          |
| CRFE3       | <i>Cryptantha fendleri</i>                                      | <i>Cryptantha fendleri</i>                                      | Often sandy, disturbed soil                                                       | 5400          | 9000          |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>                   | <i>Cryptantha jamesii</i>                                       | Disturbed ground; juniper grassland, pinyon-juniper woodland, ponderosa pine      | 5400          | 7500          |
| CUFO        | <i>Cucurbita foetidissima</i>                                   | <i>Cucurbita foetidissima</i>                                   | Disturbed soil, sand dunes                                                        | 5400          | 6500          |
| CUUM        | <i>Cuscuta umbellata</i>                                        | <i>Cuscuta umbellata</i>                                        | On herbaceous hosts; pinyon-juniper woodland                                      | 5400          | 6500          |
| CYDA        | <i>Cynodon dactylon</i>                                         | <i>Cynodon dactylon</i>                                         | Disturbed soil, abandoned agricultural fields                                     | 5400          | 5500          |
| MISE3       | <i>Mitreola sessilifolia</i>                                    | <i>Cyperus esculentus</i>                                       | Canyon bottoms, moist ground                                                      | 5400          | 7500          |
| DAGL        | <i>Dactylis glomerata</i>                                       | <i>Dactylis glomerata</i>                                       | Disturbed soils, open mountain slopes, meadows; mixed conifer, subalpine meadows  | 5400          | 10000         |
| DAFO        | <i>Dalea formosa</i>                                            | <i>Dalea formosa</i>                                            | Dry canyons and slopes                                                            | 5400          | 7000          |
| DANA        | <i>Dalea nana</i>                                               | <i>Dalea nana</i>                                               | Dry slopes of lower canyons                                                       | 5400          | 5400          |
| DAPO3       | <i>Dalea polygonoides</i>                                       | <i>Dalea polygonoides</i>                                       | Open slopes                                                                       | 5400          | 5500          |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>                      | <i>Dalea terminalis</i>                                         | Dry canyons                                                                       | 5400          | 5500          |
| DAWR2       | <i>Datura wrightii</i>                                          | <i>Datura meteloides</i>                                        | Disturbed soil; near archeological ruins                                          | 5400          | 6000          |
| DEWO        | <i>Delphinium wootonii</i>                                      | <i>Delphinium virescens</i> subsp. <i>wootonii</i>              | Dry canyon bottoms                                                                | 5400          | 6500          |
| DESO2       | <i>Descurainia sophia</i>                                       | <i>Descurainia sophia</i>                                       | Disturbed soil                                                                    | 5400          | 8000          |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis spicata</i>                                       | Saline soil                                                                       | 5400          | 5400          |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                                  | <i>Dithyrea wislizenii</i>                                      | Riverside sand dunes; juniper grassland                                           | 5400          | 6400          |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        | Rocky mesas, canyons                                                              | 5400          | 5400          |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | Rocky, gravelly slopes; pinyon-juniper woodland                                   | 5400          | 7000          |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   | Rocky slopes and canyons                                                          | 5400          | 6500          |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | Rocky slopes, mesas; pinyon-juniper woodland                                      | 5400          | 6500          |

## ELEVATION CON'T

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|-------------|--------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|---------------|---------------|
| ECCR        | <i>Echinochloa crus-galli</i>                    | <i>Echinochloa crusgalli</i>                      | Moist ground; juniper grassland                                                          | 5400          | 6000          |
| ELAN        | <i>Elaeagnus angustifolia</i>                    | <i>Elaeagnus angustifolia</i>                     | By the Rio Grande, roadsides, canyon bottoms; juniper grassland, pinyon-juniper woodland | 5400          | 7000          |
| ELGL        | <i>Elymus glaucus</i>                            | <i>Elymus glaucus</i>                             | Open woods and meadows                                                                   | 5400          | 7500          |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>       | <i>Ephedra viridis</i> var. <i>viridis</i>        | Rocky, sandy soil, canyon sides; juniper grassland                                       | 5400          | 6500          |
| EPCI        | <i>Epilobium ciliatum</i>                        | <i>Epilobium ciliatum</i>                         | Moist areas, mixed conifer forests                                                       | 5400          | 10000         |
| EPBR3       | <i>Epilobium brachycarpum</i>                    | <i>Epilobium paniculatum</i>                      | Moist places, along streams                                                              | 5400          | 8500          |
| EPGI        | <i>Epipactis gigantea</i>                        | <i>Epipactis gigantea</i>                         | Springs, White Rock Canyon, along streams                                                | 5400          | 8500          |
| EQHY        | <i>Equisetum hyemale</i>                         | <i>Equisetum hiemale</i>                          | Along streams, moist canyon bottoms mixed conifer forests                                | 5400          | 8000          |
| EQLA        | <i>Equisetum laevigatum</i>                      | <i>Equisetum laevigatum</i>                       | Moist soil, along streams                                                                | 5400          | 8000          |
| ERBA2       | <i>Eragrostis barrelieri</i>                     | <i>Eragrostis barrelieri</i>                      | Disturbed soil                                                                           | 5400          | 7000          |
| ERPE        | <i>Eragrostis pectinacea</i>                     | <i>Eragrostis pectinacea</i>                      | Disturbed canyon bottoms                                                                 | 5400          | 6000          |
| ERCA4       | <i>Erigeron canus</i>                            | <i>Erigeron canus</i>                             | Dry soils on slopes; pinyon-juniper woodland, ponderosa and mixed conifer forests        | 5400          | 9000          |
| ERDI4       | <i>Erigeron divergens</i>                        | <i>Erigeron divergens</i>                         | Canyons, mesas, roadsides; juniper grassland, pinyon-juniper woodland ponderosa          | 5400          | 8000          |
| ERFL        | <i>Erigeron flagellaris</i>                      | <i>Erigeron flagellaris</i>                       | Canyons mesas, mountain slopes; pinyon-juniper, ponderosa, mixed conifer, subalpine      | 5400          | 9500          |
| ERUT        | <i>Erigeron utahensis</i>                        | <i>Erigeron utahensis</i>                         | Meadows                                                                                  | 5400          | 7000          |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i> | <i>Eriochloa gracilis</i>                         | Moist open ground                                                                        | 5400          | 6000          |
| ERAB2       | <i>Eriogonum abertianum</i>                      | <i>Eriogonum abertianum</i>                       | Sandy mesas and slopes                                                                   | 5400          | 6500          |
| ERAL4       | <i>Eriogonum alatum</i>                          | <i>Eriogonum alatum</i>                           | Dry, often sandy, mesas and slopes                                                       | 5400          | 7000          |
| ERAN4       | <i>Eriogonum annuum</i>                          | <i>Eriogonum annuum</i>                           | Dry, often sandy, mesas and slopes                                                       | 5400          | 7000          |
| EREF        | <i>Eriogonum effusum</i>                         | <i>Eriogonum effusum</i>                          | Dry mesas                                                                                | 5400          | 6500          |
| ERPO4       | <i>Eriogonum polycladon</i>                      | <i>Eriogonum polycladon</i>                       | Dry mesas and canyons                                                                    | 5400          | 7000          |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>  | <i>Erysimum asperum</i>                           | Mesas and slopes                                                                         | 5400          | 8000          |
| ERCA14      | <i>Erysimum capitatum</i>                        | <i>Erysimum capitatum</i>                         | Canyon bottoms, mesas tops, juniper grassland, pinyon-juniper woodland                   | 5400          | 8000          |
| CHAL11      | <i>Chamaesyce albomarginata</i>                  | <i>Euphorbia albomarginata</i>                    | Mesas and slopes                                                                         | 5400          | 6500          |
| EUDE4       | <i>Euphorbia dentata</i>                         | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>  | Mesas and canyons                                                                        | 5400          | 7000          |
| EUEX4       | <i>Euphorbia exstipulata</i>                     | <i>Euphorbia exstipulata</i>                      | Dry canyons                                                                              | 5400          | 6000          |
| CHFE3       | <i>Chamaesyce fendleri</i>                       | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    | Mesas                                                                                    | 5400          | 7000          |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>      | <i>Euphorbia geyeri</i>                           | Mesas, canyons; juniper grassland, pinyon-juniper woodland                               | 5400          | 6000          |
| EULU        | <i>Euphorbia lurida</i>                          | <i>Euphorbia lurida</i>                           | Meadows                                                                                  | 5400          | 7500          |
| CHMI8       | <i>Chamaesyce missurica</i>                      | <i>Euphorbia missurica</i> var. <i>intermedia</i> | Mesas                                                                                    | 5400          | 6000          |

## ELEVATION CON'T

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|-------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------|---------------|---------------|
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i>                         | <i>Euphorbia neomexicana</i>                           | Dry canyon bottoms; juniper grassland, pinyon-juniper woodland            | 5400          | 6000          |
| CHRE4       | <i>Chamaesyce revoluta</i>                                                        | <i>Euphorbia revoluta</i>                              | Mesas, canyons; juniper grassland, pinyon-juniper woodland                | 5400          | 6500          |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i>                         | <i>Euphorbia serpyllifolia</i>                         | Meadows                                                                   | 5400          | 7500          |
| KRLA2       | <i>Krascheninnikovia lanata</i>                                                   | <i>Eurotia lanata</i>                                  | Dry canyons juniper grassland                                             | 5400          | 6000          |
| FERUR       | <i>Fendleri rupicola</i> var. <i>rupicola</i>                                     | <i>Fendleri rupicola</i> var. <i>rupicola</i>          | Rocky canyon sides; juniper grassland, pinyon-juniper woodland            | 5400          | 6000          |
| LOPR7       | <i>Lolium pratense</i>                                                            | <i>Festuca elatior</i>                                 | Disturbed soil and open meadows                                           | 5400          | 8000          |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>                                     | <i>Festuca octoflora</i>                               | Rocky ground                                                              | 5400          | 6500          |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>                                 | <i>Forestiera neomexicana</i>                          | Canyon bottoms, along streams, juniper grassland, pinyon juniper woodland | 5400          | 7000          |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                                               | <i>Gaillardia pinnatifida</i>                          | Canyons and mesas                                                         | 5400          | 7000          |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>asperrimum</i>                                    | <i>Galium asperrimum</i>                               | Canyons                                                                   | 5400          | 9000          |
| GACO5       | <i>Gaura coccinea</i>                                                             | <i>Gaura coccinea</i>                                  | Canyon sides; juniper grassland, pinyon-juniper woodland                  | 5400          | 6000          |
| GAPA6       | <i>Gaura parviflora</i>                                                           | <i>Gaura parviflora</i>                                | Disturbed soil, dry mesas and canyons                                     | 5400          | 7000          |
| GECA2       | <i>Geranium caespitosum</i> var. <i>parryi</i>                                    | <i>Geranium fremontii</i> var. <i>parryi</i>           | Rocky slopes and canyons                                                  | 5400          | 7000          |
| GILE3       | <i>Gilia leptomeria</i>                                                           | <i>Gilia leptomeria</i>                                | Dry ground                                                                | 5400          | 7000          |
| GIPI        | <i>Gilia pinnatifida</i>                                                          | <i>Gilia pinnatifida</i>                               | Mesas                                                                     | 5400          | 6500          |
| PSST7       | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             | Disturbed canyon bottoms, periodically flooded by lake waters             | 5400          | 5400          |
| PSST7       | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             | Moist ground                                                              | 5400          | 7000          |
| GRFA        | <i>Grindelia fastigiata</i>                                                       | <i>Grindelia fastigiata</i>                            | Dry mesas                                                                 | 5400          | 7000          |
| GUMI        | <i>Gutierrezia microcephala</i>                                                   | <i>Gutierrezia microcephala</i>                        | Mesas, canyons, disturbed areas                                           | 5400          | 7000          |
| GUSA2       | <i>Gutierrezia sarothrae</i>                                                      | <i>Gutierrezia sarothrae</i>                           | Dry mesas, canyons                                                        | 5400          | 8000          |
| MAGRG       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                           | Dry mesas and rocky slopes                                                | 5400          | 8000          |
| MAPIP4      | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> | Disturbed soil; juniper grassland, pinyon-juniper woodland                | 5400          | 6000          |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                              | Dry canyons and mesas                                                     | 5400          | 7500          |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                    | Dry canyon slopes and mesas                                               | 5400          | 6000          |
| HEOB        | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                            | Canyons and mesas, slopes                                                 | 5400          | 8000          |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>         | Moist canyon slopes, periodically flooded by lake waters                  | 5400          | 5400          |
| HEAR8       | <i>Helianthus arizonensis</i>                                                     | <i>Helianthus arizonensis</i>                          | Sandy soil                                                                | 5400          | 7000          |
| HYFI        | <i>Hymenopappus filifolius</i>                                                    | <i>Hymenopappus filifolius</i>                         | Canyons and mesas; juniper grassland, pinyon-juniper woodland             | 5400          | 6000          |
| TECA2       | <i>Tetradymia canescens</i>                                                       | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>           | Mesas and slopes                                                          | 5400          | 7500          |
| TEACA       | <i>Tetrameuris acaulis</i> var. <i>arizonica</i>                                  | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>         | Rocky slopes and mesas                                                    | 5400          | 7000          |

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| TEACN       | <i>Tetrandeureis acaulis</i> var. <i>nana</i>           | <i>Hymenoxys argentea</i>                    | Mesas, canyon; juniper grassland, pinyon-juniper ponderosa pine and mixed conifer   | 5400          | 7500          |
| TEBR        | <i>Tetrandeureis brandegei</i>                          | <i>Hymenoxys brandegei</i>                   | Mountain peaks                                                                      | 5400          | 7000          |
| TEIV        | <i>Tetrandeureis ivesiana</i>                           | <i>Hymenoxys ivesiana</i>                    | Dry plains and mesas                                                                | 5400          | 6000          |
| IPHE        | <i>Ipomoea hederacea</i>                                | <i>Ipomoea hederacea</i>                     | Dry fields, disturbed soils                                                         | 5400          | 5400          |
| IPLO2       | <i>Ipomopsis longiflora</i>                             | <i>Ipomopsis longiflora</i>                  | Disturbed soil; juniper grassland, pinyon-juniper woodland                          | 5400          | 6500          |
| IPMU3       | <i>Ipomopsis multiflora</i>                             | <i>Ipomopsis multiflora</i>                  | Dry slopes and mesas                                                                | 5400          | 6000          |
| IPPU4       | <i>Ipomopsis pumila</i>                                 | <i>Ipomopsis pumila</i>                      | Dry mesas and canyons; pinyon-juniper woodland                                      | 5400          | 6500          |
| IVAX        | <i>Iva axillaris</i>                                    | <i>Iva axillaris</i>                         | Disturbed soil, roadsides, near streams                                             | 5400          | 5500          |
| IVXA        | <i>Iva xanthifolia</i>                                  | <i>Iva xanthifolia</i>                       | Along streams, disturbed soil                                                       | 5400          | 7000          |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>             | <i>Juncus balticus</i> var. <i>montanus</i>  | Moist places, canyons and on slopes                                                 | 5400          | 9000          |
| JUMA4       | <i>Juncus marginatus</i>                                | <i>Juncus marginatus</i>                     | Moist ground                                                                        | 5400          | 5400          |
| JUME4       | <i>Juncus mexicanus</i>                                 | <i>Juncus mexicanus</i>                      | Moist, often alkaline soil                                                          | 5400          | 5400          |
| JUTO        | <i>Juncus torreyi</i>                                   | <i>Juncus torreyi</i>                        | Moist ground                                                                        | 5400          | 8000          |
| JUMO        | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                  | Mesas and canyons                                                                   | 5400          | 7500          |
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>             | Dry plains                                                                          | 5400          | 6500          |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                    | Mesas, canyons; pinyon-juniper woodland, ponderosa pine forest                      | 5400          | 7500          |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                  | Open slopes and meadows                                                             | 5400          | 8000          |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                   | Moist ground                                                                        | 5400          | 6000          |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                     | Disturbed soil                                                                      | 5400          | 8000          |
| LASQ        | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                      | Disturbed soil, sandy soil                                                          | 5400          | 7000          |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                     | Disturbed soil, sandy soil                                                          | 5400          | 9000          |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                        | Disturbed soil                                                                      | 5400          | 6500          |
| LEMI3       | <i>Lemna minor</i>                                      | <i>Lemna minor</i>                           | In water in canyons                                                                 | 5400          | 8500          |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>           | <i>Lepidium medium</i> var. <i>pubescens</i> | Roadsides, disturbed soil                                                           | 5400          | 7500          |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>        | <i>Lepidium medium</i> var. <i>medium</i>    | Disturbed soil; juniper grassland, pinyon-juniper woodland, ponderosa pine forest   | 5400          | 7500          |
| LEFE        | <i>Lesquerella fendleri</i>                             | <i>Lesquerella fendleri</i>                  | Rocky slopes and mesas, sometimes sandy soils                                       | 5400          | 7000          |
| LEIN3       | <i>Lesquerella intermedia</i>                           | <i>Lesquerella intermedia</i>                | Disturbed soil, slopes; juniper grassland, pinyon-juniper woodland                  | 5400          | 6500          |
| LERE3       | <i>Lesquerella rectipes</i>                             | <i>Lesquerella rectipes</i>                  | Dry canyons and mesas; juniper grassland, pinyon-juniper woodland                   | 5400          | 6500          |
| CHER2       | <i>Chaetopappa ericoides</i>                            | <i>Leucelene ericoides</i>                   | Disturbed soil, dry canyons and mesas, pinyon-juniper woodland                      | 5400          | 7000          |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>              | <i>Linum aristatum</i> var. <i>australe</i>  | Sandy places, mesas                                                                 | 5400          | 8000          |
| LILE3       | <i>Linum lewisii</i>                                    | <i>Linum lewisii</i>                         | Dry canyons, mesas, usually disturbed soil                                          | 5400          | 10000         |
| LINE        | <i>Linum neomexicanum</i>                               | <i>Linum neomexicana</i>                     | Dry canyon bottoms and sides, mesa tops; juniper grassland, pinyon-juniper woodland | 5400          | 6500          |

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| LIPU4       | <i>Linum puberulum</i>                                                   | <i>Linum puberulum</i>                           | Dry mesas and canyons                                                           | 5400          | 7500          |
| LIIN2       | <i>Lithospermum incisum</i>                                              | <i>Lithospermum incisum</i>                      | Canyons, mesas; pinyon-juniper woodland, ponderosa pine forest                  | 5400          | 7000          |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>                           | <i>Lobelia cardinalis</i> subsp. <i>graminae</i> | White Rock Canyon springs; pinyon-juniper woodland and Moist-wet                | 5400          | 5400          |
| LOPE        | <i>Lolium perenne</i>                                                    | <i>Lolium perenne</i>                            | Meadows, disturbed soil                                                         | 5400          | 6500          |
| LUPU        | <i>Lupinus pusillus</i>                                                  | <i>Lupinus pusillus</i>                          | Dry mesas and sandy soils                                                       | 5400          | 7500          |
| LYPA        | <i>Lycium pallidum</i>                                                   | <i>Lycium pallidum</i>                           | Archeological ruins, talus slopes; juniper grassland, pinyon-juniper woodland   | 5400          | 7000          |
| LYAM        | <i>Lycopus americanus</i>                                                | <i>Lycopus americanus</i>                        | Disturbed canyon bottoms and slopes, periodically flooded by lake waters        | 5400          | 5400          |
| LYPH        | <i>Lycurus phleoides</i>                                                 | <i>Lycurus phleoides</i>                         | Dry canyon sides and bottoms; juniper grassland, pinyon-juniper, ponderosa pine | 5400          | 8000          |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                   | Sandy areas                                                                     | 5400          | 5400          |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                  | Canyons                                                                         | 5400          | 7000          |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                      | Sandy or rocky mesas and slopes                                                 | 5400          | 6000          |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                           | Disturbed soil, lawns                                                           | 5400          | 7500          |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                          | Disturbed soil, lawns                                                           | 5400          | 7000          |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                      | Canyons and mesas; juniper grassland                                            | 5400          | 6500          |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                       | <i>Maurandya antirrhiniflora</i>                 | Sandy soils, along Rio Grande                                                   | 5400          | 7500          |
| MELU        | <i>Medicago lupulina</i>                                                 | <i>Medicago lupulina</i>                         | Disturbed soil; juniper grassland, pinyon-juniper woodland                      | 5400          | 7500          |
| MESA        | <i>Medicago sativa</i>                                                   | <i>Medicago sativa</i>                           | Open slopes; spruce-fir forest                                                  | 5400          | 10000         |
| MELE2       | <i>Melampodium leucanthum</i>                                            | <i>Melampodium leucanthum</i>                    | Rocky dry canyons                                                               | 5400          | 6000          |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus albus</i>                           | Disturbed soil                                                                  | 5400          | 8000          |
| MEIN2       | <i>Melilotus indicus</i>                                                 | <i>Melilotus indicus</i>                         | Fields and disturbed soils                                                      | 5400          | 7000          |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus officinalis</i>                     | Disturbed soil; juniper grassland, ponderosa pine and mixed conifer forest      | 5400          | 8500          |
| MEAR4       | <i>Mentha arvensis</i>                                                   | <i>Mentha arvensis</i>                           | Moist ground                                                                    | 5400          | 9000          |
| MEAL6       | <i>Mentzelia albicaulis</i>                                              | <i>Mentzelia albicaulis</i>                      | Disturbed soil; juniper grassland, pinyon-juniper woodland                      | 5400          | 7000          |
| MELA        | <i>Mentzelia laciniata</i>                                               | <i>Mentzelia laciniata</i>                       | Mesas and canyons                                                               | 5400          | 6500          |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>                                | <i>Mentzelia nuda</i> var. <i>stricta</i>        | Mesas                                                                           | 5400          | 6500          |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>                               | <i>Mentzelia pumila</i> var. <i>integra</i>      | Mesas                                                                           | 5400          | 6500          |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>                          | <i>Mentzelia pumila</i> var. <i>multiflora</i>   | Sandy soil                                                                      | 5400          | 8000          |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                       | <i>Mentzelia pumila</i> var. <i>pumila</i>       | Disturbed soil roadsides, trails                                                | 5400          | 8000          |
| URLI2       | <i>Uropappus linearifolius</i>                                           | <i>Microseris linearifolia</i>                   | Canyon bottoms; juniper grassland                                               | 5400          | 6000          |
|             |                                                                          | <i>Microseris minimus</i>                        | Canyon bottoms; juniper grassland                                               | 5400          | 6000          |
| MIFL2       | <i>Mimulus floribundus</i>                                               | <i>Mimulus floribundus</i>                       | Moist ground, along streams                                                     | 5400          | 6500          |

## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                   | Martin and Hutchins (1980)                         | Habitat                                                                | Min Elev (ft) | Max Elev (ft) |
|-------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|---------------|---------------|
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>       | <i>Mimulus glabratus</i> var. <i>fremontii</i>     | Shallowwater                                                           | 5400          | 7000          |
| MICO7       | <i>Mirabilis coccinea</i>                          | <i>Mirabilis coccinea</i>                          | Mesas and canyons                                                      | 5400          | 6500          |
| MIMU        | <i>Mirabilis multiflora</i>                        | <i>Mirabilis multiflora</i>                        | Canyon sides and mesas tops; usually beneath junipers or pinyons       | 5400          | 7000          |
| MIOX        | <i>Mirabilis oxybaphoides</i>                      | <i>Mirabilis oxybaphoides</i>                      | Canyon sides; juniper grassland                                        | 5400          | 6000          |
| MUAR4       | <i>Muhlenbergia arsenei</i>                        | <i>Muhlenbergia arsenei</i>                        | Dry canyons and mesas; juniper grassland, pinyon-juniper woodland      | 5400          | 6500          |
| MUAS        | <i>Muhlenbergia asperifolia</i>                    | <i>Muhlenbergia asperifolia</i>                    | Mesas                                                                  | 5400          | 6000          |
| MUCU        | <i>Muhlenbergia curtifolia</i>                     | <i>Muhlenbergia curtifolia</i>                     | Rocky soil                                                             | 5400          | 8000          |
| MUME2       | <i>Muhlenbergia mexicana</i>                       | <i>Muhlenbergia mexicana</i>                       | Moist ground                                                           | 5400          | 6500          |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                     | <i>Muhlenbergia pauciflora</i>                     | Rocky slopes                                                           | 5400          | 7500          |
| MUPO2       | <i>Muhlenbergia porteri</i>                        | <i>Muhlenbergia porteri</i>                        | Rocky slopes and mesas                                                 | 5400          | 6500          |
| MURA        | <i>Muhlenbergia racemosa</i>                       | <i>Muhlenbergia racemosa</i>                       | Moist woods and meadows                                                | 5400          | 8000          |
| MUTO2       | <i>Muhlenbergia torreyi</i>                        | <i>Muhlenbergia torreyi</i>                        | Mesa tops                                                              | 5400          | 6500          |
| MOSQ        | <i>Monroa squarrosa</i>                            | <i>Munroa squarrosa</i>                            | Mesas, adjacent to ant piles in disturbed soils                        | 5400          | 6000          |
|             |                                                    | <i>Myosurus minimus</i>                            | Moist, wet places; juniper grassland                                   | 5400          | 5400          |
| NADI        | <i>Nama dichotomum</i>                             | <i>Nama dichotomum</i>                             | Open sometimes, gravelly slopes                                        | 5400          | 8000          |
| NAHI        | <i>Nama hispidum</i>                               | <i>Nama hispidum</i> var. <i>hispidum</i>          | Dry mesas                                                              | 5400          | 7000          |
| NECA2       | <i>Nepeta cataria</i>                              | <i>Nepeta cataria</i>                              | Disturbed soil                                                         | 5400          | 8000          |
| NIAT        | <i>Nicotiana attenuata</i>                         | <i>Nicotiana attenuata</i>                         | Sandy soil near streams and washes                                     | 5400          | 7000          |
| NOTHO       | <i>Notholaena</i>                                  | <i>Notholaena</i> spp.                             | pinyon-juniper woodland                                                | 5400          | 7000          |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>   | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  | Rocky slopes                                                           | 5400          | 8500          |
| OECO2       | <i>Oenothera coronopifolia</i>                     | <i>Oenothera coronopifolia</i>                     | Open slopes                                                            | 5400          | 8000          |
| OEFL        | <i>Oenothera flava</i>                             | <i>Oenothera flava</i>                             | Moist meadows                                                          | 5400          | 10000         |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>       | <i>Oenothera pallida</i> subsp. <i>pallida</i>     | Sand, disturbed soil                                                   | 5400          | 5400          |
| OEPR        | <i>Oenothera primiveris</i>                        | <i>Oenothera primiveris</i>                        | Mesas and canyons                                                      | 5400          | 5400          |
| OPCL        | <i>Opuntia clavata</i>                             | <i>Opuntia clavata</i>                             | Sandy river banks                                                      | 5400          | 5400          |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>       | <i>Opuntia erinacea</i> var. <i>erinacea</i>       | Sandy or gravelly canyons                                              | 5400          | 7000          |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>      | <i>Opuntia erinacea</i> var. <i>utahensis</i>      | Sandy or gravelly canyons                                              | 5400          | 6500          |
| OPIM        | <i>Opuntia imbricata</i>                           | <i>Opuntia imbricata</i>                           | Gravelly or sandy slopes, archeological sites, pinyon-juniper woodland | 5400          | 6000          |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   | Rocky-sandy mesas; juniper grassland                                   | 5400          | 6500          |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> | <i>Opuntia phaeacantha</i> var. <i>discata</i>     | Sandy hills, valleys                                                   | 5400          | 5400          |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i> | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> | Rocky canyons, sandy banks of Rio Grande; pinyon-juniper woodland      | 5400          | 6000          |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | Dry sandy soils; pinyon-juniper woodland, ponderosa pine forest        | 5400          | 8000          |



## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                     | Habitat                                                                          | Min Elev (ft) | Max Elev (ft) |
|-------------|-------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------|---------------|---------------|
| ORFA        | <i>Orobanche fasciculata</i>                                | <i>Orobanche fasciculata</i> var. <i>lutea</i> | Under snakeweed and sagebrush; juniper woodland                                  | 5400          | 6000          |
| ORLUM       | <i>Orobanche ludoviciana</i> ssp. <i>multiflora</i>         | <i>Orobanche multiflora</i>                    | Sandy soils                                                                      | 5400          | 6500          |
| ACHY        | <i>Achnatherum hymenoides</i>                               | <i>Oryzopsis hymenoides</i>                    | Sandy areas; juniper grassland, pinyon-juniper woodland                          | 5400          | 7000          |
| PIMI7       | <i>Piptatherum micranthum</i>                               | <i>Oryzopsis micrantha</i>                     | Canyons and mesas; juniper grassland, pinyon-juniper woodland                    | 5400          | 7000          |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                      | Plains and hills                                                                 | 5400          | 7000          |
| MILI3       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i> | Dry or disturbed soil                                                            | 5400          | 8000          |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i> | Disturbed soil, roadsides; juniper grassland, pinyon-juniper woodland, ponderosa | 5400          | 7000          |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                         | Mesas                                                                            | 5400          | 6000          |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                       | Disturbed soil                                                                   | 5400          | 7000          |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                         | Along banks of the Rio Grande; juniper grassland                                 | 5400          | 6000          |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                   | Agricultural areas                                                               | 5400          | 6000          |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                    | Moist ground                                                                     | 5400          | 5400          |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                        | Canyon bottoms; ponderosa pine forest                                            | 5400          | 7500          |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                  | Springs and along rivers; juniper grassland, pinyon-juniper woodland             | 5400          | 6000          |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                     | Mesas and slopes                                                                 | 5400          | 7000          |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                          | Mesas; juniper grassland                                                         | 5400          | 6000          |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                    | Rocky areas, usually along cliffs                                                | 5400          | 7000          |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                        | Under rocky overhanging cliffs; juniper woodland                                 | 5400          | 6000          |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                       | Rocky areas, especially cliffs and ledges                                        | 5400          | 7000          |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                      | Mesas and canyons                                                                | 5400          | 8000          |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                       | Dry canyons; juniper grassland, pinyon-juniper woodland                          | 5400          | 6500          |
| PESE11      | <i>Penstemon secundiflorus</i>                              | <i>Penstemon secundiflorus</i>                 | Dry canyons and mesas; juniper grassland, pinyon-juniper woodland                | 5400          | 6500          |
| PEVI4       | <i>Penstemon virgatus</i>                                   | <i>Penstemon virgatus</i>                      | Dry canyons, mesas; juniper grassland, pinyon-juniper woodland                   | 5400          | 7500          |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                    | <i>Petalostemum villosum</i>                   | Mesas and canyons                                                                | 5400          | 6000          |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>             | <i>Phacelia corrugata</i>                      | Mesas, disturbed soil, sandy soil                                                | 5400          | 7000          |
| PHAN3       | <i>Phaseolus angustissimus</i>                              | <i>Phaseolus angustissimus</i>                 | Dry mesas and canyons, sandy soils                                               | 5400          | 6000          |
| STLE6       | <i>Strophostyles leiosperma</i>                             | <i>Phaseolus leiospermus</i>                   | Stream banks                                                                     | 5400          | 6000          |
| PHLO2       | <i>Phlox longifolia</i>                                     | <i>Phlox longifolia</i>                        | Open slopes                                                                      | 5400          | 6500          |
| PHJU        | <i>Phoradendron juniperinum</i>                             | <i>Phoradendron juniperum</i>                  | Mostly parasitic on junipers                                                     | 5400          | 7000          |
| PHAU7       | <i>Phragmites australis</i>                                 | <i>Phragmites communis</i>                     | Wet canyon slopes                                                                | 5400          | 5550          |

## ELEVATION CON'T

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|-------------|-----------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------|---------------|---------------|
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>  | Slopes, canyons and mesas                                                  | 5400          | 7000          |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                           | Disturbed soil                                                             | 5400          | 6500          |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                 | Mesas and canyons; often with juniper                                      | 5400          | 7500          |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>       | Canyon bottoms, canyon sides, mountain slopes                              | 5400          | 9500          |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                             | Disturbed soil; juniper grassland, pinyon-juniper woodland                 | 5400          | 7000          |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                    | Disturbed soil                                                             | 5400          | 8500          |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                | Meadows                                                                    | 5400          | 7000          |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                | Disturbed soil                                                             | 5400          | 9000          |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                 | Moist meadows                                                              | 5400          | 8000          |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                | Mountain slopes, canyons                                                   | 5400          | 9500          |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                          | Disturbed soil, mostly along roadsides                                     | 5400          | 9500          |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                        | Disturbed soil, cultivated soil                                            | 5400          | 8000          |
| POPE3       | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                         | Moist ground, canyon bottoms; juniper grassland, pinyon-juniper woodland   | 5400          | 8500          |
| POMO5       | <i>Polypogon monspeliensis</i>                            | <i>Polypogon monspeliensis</i>                      | Dry canyons; juniper grassland                                             | 5400          | 6000          |
| POAN3       | <i>Populus angustifolia</i>                               | <i>Populus angustifolia</i>                         | Moist canyon bottoms; pinyon-juniper woodland, ponderosa pine forest       | 5400          | 6500          |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>            | <i>Populus fremontii</i> var. <i>wislizenii</i>     | River banks, streams sides                                                 | 5400          | 6500          |
| POOL        | <i>Portulaca oleracea</i>                                 | <i>Portulaca oleracea</i>                           | Disturbed soil, cultivated areas                                           | 5400          | 8000          |
| ARAN7       | <i>Argentina anserina</i>                                 | <i>Potentilla anserina</i>                          | Moist ground, particularly banks or Rio Grande, riparian areas, meadows    | 5400          | 9500          |
| PRAM        | <i>Prunus americana</i>                                   | <i>Prunus americana</i>                             | Slopes, valleys, along streams                                             | 5400          | 7000          |
| PSTA        | <i>Psilostrophe tagetina</i>                              | <i>Psilostrophe tagetina</i>                        | Dry canyon bottoms, mesa tops; juniper grassland, pinyon-juniper grassland | 5400          | 6500          |
| PEHYH       | <i>Pediomelum hypogaeum</i> var. <i>hypogaeum</i>         | <i>Psoralea hypogaea</i>                            | Dry canyons                                                                | 5400          | 5500          |
| PSLA3       | <i>Psoralidium lanceolatum</i>                            | <i>Psoralea lanceolata</i>                          | Dry mesas                                                                  | 5400          | 7500          |
| PSTE5       | <i>Psoralidium tenuiflorum</i>                            | <i>Psoralea tenuiflora</i>                          | Dry mesas                                                                  | 5400          | 7500          |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                               | Dry canyon sides and bottoms                                               | 5400          | 6000          |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                              | Rocky slopes                                                               | 5400          | 7000          |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                           | Rocky slopes                                                               | 5400          | 8000          |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i> | Ponds and streams                                                          | 5400          | 8500          |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                         | Canyon bottoms                                                             | 5400          | 8000          |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                        | Moist soil                                                                 | 5400          | 7500          |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                         | River banks, disturbed areas; juniper grassland, pinyon-juniper woodland   | 5400          | 6000          |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                             | River banks, disturbed soil; juniper grassland, pinyon-juniper woodland    | 5400          | 6500          |

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|-------------|----------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------|---------------|
| RHGL        | <i>Rhus glabra</i>                                 | <i>Rhus glabra</i>                              | Moist soil along streams, rocky canyon walls                                                         | 5400          | 8000          |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i> | <i>Rhus radicans</i>                            | Canyon bottoms, springs in dry canyons; pinyon-juniper woodlands, ponderosa pine                     | 5400          | 8000          |
| RICE        | <i>Ribes cereum</i>                                | <i>Ribes cereum</i>                             | Canyons, meadows, forest openings; juniper grassland, pinyon-juniper woodland, pine, mixed conifer   | 5400          | 8000          |
| ROIS2       | <i>Rorippa islandica</i>                           | <i>Rorippa islandica</i>                        | Streams                                                                                              | 5400          | 9500          |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                | <i>Rorippa nasturtium-aquaticum</i>             | Running water; juniper grassland                                                                     | 5400          | 6000          |
| ROTE2       | <i>Rorippa teres</i>                               | <i>Rorippa obtusa</i>                           | Wet ground                                                                                           | 5400          | 9000          |
| ROSI2       | <i>Rorippa sinuata</i>                             | <i>Rorippa sinuata</i>                          | Wet ground                                                                                           | 5400          | 8000          |
| ROSY        | <i>Rorippa sylvestris</i>                          | <i>Rorippa sylvestris</i>                       | Damp ground                                                                                          | 5400          | 8000          |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>            | <i>Rosa woodsii</i> var. <i>arizonica</i>       | Along streams or on forested slopes                                                                  | 5400          | 9000          |
| RUAC3       | <i>Rumex acetosella</i>                            | <i>Rumex acetosella</i>                         | Meadows, disturbed soil                                                                              | 5400          | 8000          |
| RUCR        | <i>Rumex crispus</i>                               | <i>Rumex crispus</i>                            | See Robertson (1968); Herb., Band. NM                                                                | 5400          | 8000          |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>    | <i>Rumex mexicanus</i>                          | Canyon bottoms, along streams, disturbed soils                                                       | 5400          | 7000          |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>    | <i>Rumex triangulivalvis</i>                    | Disturbed soil, stream banks; juniper grassland, pinyon-juniper woodland, pine                       | 5400          | 7500          |
| SAEX        | <i>Salix exigua</i>                                | <i>Salix exigua</i>                             | Along streams, moist places; juniper and pinyon-juniper woodland, ponderosa pine forest              | 5400          | 7000          |
| SAIR        | <i>Salix irrorata</i>                              | <i>Salix irrorata</i>                           | Along streams, moist places; juniper grassland, pinyon-juniper woodland                              | 5400          | 7500          |
| SAAB        | <i>Sanvitalia abertii</i>                          | <i>Sanvitalia abertii</i>                       | Canyon bottoms; juniper grassland, pinyon-juniper woodland                                           | 5400          | 6500          |
| SAOF4       | <i>Saponaria officinalis</i>                       | <i>Saponaria officinalis</i>                    | Roadsides, disturbed soil and Dry-moist                                                              | 5400          | 7500          |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                     | <i>Sarcobatus vermiculatus</i>                  | Alkaline soil                                                                                        | 5400          | 6000          |
| SCBR2       | <i>Scleropogon brevifolius</i>                     | <i>Scleropogon brevifolius</i>                  | Canyons, sandy soil                                                                                  | 5400          | 7000          |
| SCCA11      | <i>Schoenoplectus californicus</i>                 | <i>Scripus californicus</i>                     | Moist ground                                                                                         | 5400          | 5400          |
| SEAR3       | <i>Senecio arizonicus</i>                          | <i>Senecio arizonicus</i>                       | Dry mesas                                                                                            | 5400          | 6000          |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>     | <i>Senecio douglasii</i> var. <i>longilobus</i> | Mesas, canyons, disturbed soil; juniper grassland, pinyon-juniper woodland                           | 5400          | 7500          |
| SENE4       | <i>Senecio neomexicanus</i>                        | <i>Senecio neomexicanus</i>                     | Mountains and dry slopes                                                                             | 5400          | 9000          |
| PEAM4       | <i>Pennisetum americanum</i>                       | <i>Setaria lutescens</i>                        | Disturbed soil                                                                                       | 5400          | 7500          |
| SEVI4       | <i>Setaria viridis</i>                             | <i>Setaria viridis</i>                          | Disturbed soil                                                                                       | 5400          | 8000          |
| SIAL2       | <i>Sisymbrium altissimum</i>                       | <i>Sisymbrium altissimum</i>                    | Disturbed soil                                                                                       | 5400          | 7000          |
| SCLI        | <i>Schoenocrambe linifolia</i>                     | <i>Sisymbrium linifolium</i>                    | Mesas and slopes                                                                                     | 5400          | 8500          |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>      | <i>Sitanion hystrix</i>                         | Disturbed soil; juniper grassland, pinyon-juniper woodland, ponderosa pine and mixed conifer forests | 5400          | 9500          |
| SOAM        | <i>Solanum americanum</i>                          | <i>Solanum americanum</i>                       | Disturbed soil                                                                                       | 5400          | 5400          |
| SODO        | <i>Solanum douglasii</i>                           | <i>Solanum douglasii</i>                        | Canyons and rocky slopes                                                                             | 5400          | 6000          |

## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                  | Martin and Hutchins (1980)                            | Habitat                                                                                       | Min Elev (ft) | Max Elev (ft) |
|-------------|---------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------|---------------|
| SOEL        | <i>Solanum elaeagnifolium</i>                     | <i>Solanum elaeagnifolium</i>                         | Disturbed soil; juniper woodland, pinyon-juniper forest                                       | 5400          | 6000          |
| SOPT3       | <i>Solanum ptychanthum</i>                        | <i>Solanum nigrum</i>                                 | Shaded slopes                                                                                 | 5400          | 7000          |
| SORO        | <i>Solanum rostratum</i>                          | <i>Solanum rostratum</i>                              | Disturbed soil                                                                                | 5400          | 7500          |
| SOSA        | <i>Solanum sarrachoides</i>                       | <i>Solanum sarachoides</i>                            | Disturbed soil                                                                                | 5400          | 8000          |
| SOTR        | <i>Solanum triflorum</i>                          | <i>Solanum triflorum</i>                              | Slopes of mesas and canyons                                                                   | 5400          | 9000          |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i> | <i>Solidago canadensis</i> var. <i>canadensis</i>     | Moist ground                                                                                  | 5400          | 9000          |
| EUOC4       | <i>Euthamia occidentalis</i>                      | <i>Solidago occidentalis</i>                          | Dry canyons; juniper grassland                                                                | 5400          | 6000          |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>       | <i>Solidago petradoria</i>                            | Rocky canyons and slopes                                                                      | 5400          | 8000          |
| SOVE6       | <i>Solidago velutina</i>                          | <i>Solidago sparsiflora</i>                           | Canyon bottoms; juniper grassland                                                             | 5400          | 6000          |
| SOOL        | <i>Sonchus oleraceus</i>                          | <i>Sonchus oleraceus</i>                              | Disturbed soil; roadsides                                                                     | 5400          | 6000          |
| SONU        | <i>Sophora nuttalliana</i>                        | <i>Sophora nuttalliana</i>                            | Dry canyon sides; juniper grassland, pinyon-juniper woodland                                  | 5400          | 6000          |
| SONU2       | <i>Sorghastrum nutans</i>                         | <i>Sorghastrum nutans</i>                             | Mesas                                                                                         | 5400          | 6500          |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                   | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> | Dry disturbed soil, roadsides                                                                 | 5400          | 7000          |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>     | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         | Canyon bottoms, roadsides                                                                     | 5400          | 8000          |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>  | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      | Open slopes                                                                                   | 5400          | 8000          |
| SPIN2       | <i>Sphaeralcea incana</i>                         | <i>Sphaeralcea incana</i>                             | Canyons, mesas, disturbed soils; juniper grassland, pinyon-juniper woodland                   | 5400          | 6500          |
| SPAI        | <i>Sporobolus airoides</i>                        | <i>Sporobolus airoides</i>                            | Mesas and slopes                                                                              | 5400          | 7000          |
| SPCR        | <i>Sporobolus cryptandrus</i>                     | <i>Sporobolus cryptandrus</i>                         | Dry mesas and slopes; pinyon juniper woodland, revegetated agricultural areas                 | 5400          | 6500          |
| SPNE        | <i>Sporobolus nealleyi</i>                        | <i>Sporobolus nealleyi</i>                            | Dry mesas and canyons; juniper grassland, pinyon-juniper woodland                             | 5400          | 6500          |
| SPT5        | <i>Sporobolus texanus</i>                         | <i>Sporobolus texanus</i>                             | Canyons and slopes                                                                            | 5400          | 5400          |
| STPI        | <i>Stanleya pinnata</i>                           | <i>Stanleya pinnata</i>                               | Mesas and canyons                                                                             | 5400          | 6500          |
| STPA4       | <i>Stephanomeria pauciflora</i>                   | <i>Stephanomeria pauciflora</i>                       | Mesas                                                                                         | 5400          | 7000          |
| STTE2       | <i>Stephanomeria tenuifolia</i>                   | <i>Stephanomeria tenuifolia</i>                       | Mesas                                                                                         | 5400          | 8000          |
| ACEM4       | <i>Achnatherum eminens</i>                        | <i>Stipa eminens</i>                                  | Dry slopes, mesas                                                                             | 5400          | 6000          |
| SYOC        | <i>Symphoricarpos occidentalis</i>                | <i>Symphoricarpos occidentalis</i>                    | Along streams                                                                                 | 5400          | 8000          |
| TAGA        | <i>Tamarix gallica</i>                            | <i>Tamarix gallica</i>                                | Along the Rio Grande and lower slopes of White Rock Canyon                                    | 5400          | 6500          |
| TACH2       | <i>Tamarix chinensis</i>                          | <i>Tamarix pentandra</i>                              | Along rivers and streams, moist places, roadsides; juniper grassland, pinyon-juniper woodland | 5400          | 6500          |
| TALA2       | <i>Taraxacum laevigatum</i>                       | <i>Taraxacum laevigatum</i>                           | Disturbed soil                                                                                | 5400          | 12000         |

## ELEVATION CON'T

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|-------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------|---------------|
| TAOF        | <i>Taraxacum officinale</i>                                | <i>Taraxacum officinale</i>                                | Disturbed soils; juniper grassland, mixed conifer and spruce-fir forests                             | 5400          | 9000          |
| TECA2       | <i>Tetradymia canescens</i>                                | <i>Tetradymia canescens</i>                                | Mesas, canyons; juniper grassland, pinyon-juniper woodland                                           | 5400          | 6500          |
| THME        | <i>Thelesperma megapotamicum</i>                           | <i>Thelesperma megapotamicum</i>                           | Disturbed soil; juniper grassland, pinyon-juniper woodland                                           | 5400          | 6500          |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>       | <i>Thelesperma trifidum</i>                                | Disturbed soil                                                                                       | 5400          | 7500          |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i> | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> | Damp ground                                                                                          | 5400          | 6500          |
| THWR        | <i>Thelypodium wrightii</i>                                | <i>Thelypodium wrightii</i>                                | Canyons and mesas; juniper grassland, pinyon-juniper woodland ponderosa forest                       | 5400          | 7500          |
| TRPR        | <i>Tragopogon pratensis</i>                                | <i>Tragopogon pratensis</i>                                | Disturbed soil                                                                                       | 5400          | 7000          |
| TRTE        | <i>Tribulus terrestris</i>                                 | <i>Tribulus terrestris</i>                                 | Disturbed soil                                                                                       | 5400          | 7000          |
| TRCA5       | <i>Trifolium campestre</i>                                 | <i>Trifolium procumbens</i>                                | Disturbed soil                                                                                       | 5400          | 7000          |
| TRRE3       | <i>Trifolium repens</i>                                    | <i>Trifolium repens</i>                                    | Disturbed soil; meadows                                                                              | 5400          | 8500          |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                               | Mesas, slopes                                                                                        | 5400          | 6000          |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                                   | Dry mesas                                                                                            | 5400          | 5500          |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                                    | Rocky slopes, dry canyons; White Rock Canyon                                                         | 5400          | 6000          |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | Disturbed soil; pinyon-juniper woodland                                                              | 5400          | 6500          |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                                  | Near streams, springs, wet areas; juniper grassland, pinyon-juniper woodland, pine and mixed conifer | 5400          | 7500          |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                                   | Shallow water, moist disturbed soil                                                                  | 5400          | 8000          |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                              | Along streams, springs; juniper grassland, pinyon-juniper woodland                                   | 5400          | 6000          |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>                   | Sandy soils                                                                                          | 5400          | 6000          |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>           | <i>Vicia exigua</i>                                        | Canyon bottoms and slopes, periodically flooded by lake waters                                       | 5400          | 6300          |
| VICO        | <i>Viguiera cordifolia</i>                                 | <i>Viguiera cordifolia</i>                                 | Canyons and dry slopes                                                                               | 5400          | 5400          |
| VIAD        | <i>Viola adunca</i>                                        | <i>Viola adunca</i>                                        | Streamsides, moist canyon bottoms; juniper grassland, pinyon-juniper woodland, pine, mixed conifer   | 5400          | 9000          |
| VISO        | <i>Viola sororia</i>                                       | <i>Viola nephrophylla</i>                                  | Springs, along streams                                                                               | 5400          | 9000          |
| VIAR2       | <i>Vitis arizonica</i>                                     | <i>Vitis arizonica</i> var. <i>arizonica</i>               | Canyon walls, along Rio Grande, canyon bottoms; juniper grassland, pinyon-juniper woodland           | 5400          | 7000          |
| VIVU        | <i>Vitis vulpina</i>                                       | <i>Vitis vulpina</i>                                       | New streams                                                                                          | 5400          | 6000          |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i>           | <i>Xanthium strumarium</i> var. <i>canadense</i>           | Disturbed soil; riverbanks, juniper grasslands                                                       | 5400          | 6000          |
| YUAN2       | <i>Yucca angustissima</i>                                  | <i>Yucca angustissima</i>                                  | Mesas, dry canyon sides; juniper grassland, pinyon-juniper woodland                                  | 5400          | 7000          |

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|-------------|---------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|---------------|
| YUBA        | <i>Yucca baccata</i>                                    | <i>Yucca baccata</i>                                       | Dry canyon sides, mesas; juniper grassland, pinyon-juniper woodland               | 5400          | 6500          |
| YUGL        | <i>Yucca glauca</i>                                     | <i>Yucca glauca</i>                                        | Canyons and mesas                                                                 | 5400          | 6000          |
| AMAL        | <i>Amaranthus albus</i>                                 | <i>Amaranthus albus</i>                                    | Disturbed canyon slopes, periodically flooded by lake waters                      | 5450          | 5450          |
| AMPO2       | <i>Amaranthus powellii</i> S. Wats.                     | <i>Amaranthus powellii</i>                                 | Disturbed areas of canyons and mesas                                              | 5450          | 6500          |
| ASEN        | <i>Asclepias engelmanniana</i>                          | <i>Asclepias engelmanniana</i>                             | Disturbed canyon bottoms and slopes                                               | 5460          | 6000          |
| BITR        | <i>Bidens tripartita</i>                                | <i>Bidens cosmosa</i>                                      | Disturbed canyon bottoms, periodically flooded by lake waters                     | 5460          | 5460          |
| CRMI5       | <i>Cryptantha minima</i>                                | <i>Cryptantha minima</i>                                   | Disturbed, sandy canyon bottoms, periodically flooded by lake waters              | 5460          | 5460          |
| ERCI        | <i>Eragrostis cilianensis</i>                           | <i>Eragrostis cilianensis</i>                              | Disturbed canyon bottoms                                                          | 5460          | 6000          |
| ARDI2       | <i>Arabis X divaricarpa</i>                             | <i>Arabis divaricarpa</i>                                  | Moist canyon bottoms                                                              | 5500          | 6400          |
| CHFE        | <i>Cheilanthes feei</i>                                 | <i>Cheilanthes feei</i>                                    | Canyon slopes, on cliffs and boulders                                             | 5500          | 5500          |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>            | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>             | Canyons and stream banks                                                          | 5500          | 6500          |
| ELPA3       | <i>Eleocharis palustris</i>                             | <i>Eleocharis macrostachya</i>                             | Moist canyon bottoms and wet canyon slopes                                        | 5500          | 7200          |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i>    | Meadows, canyons                                                                  | 5500          | 10000         |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                                 | Dry slopes, mesas                                                                 | 5500          | 8000          |
| ERIN7       | <i>Erysimum inconspicuum</i>                            | <i>Erysimum inconspicuum</i>                               | Mesas and open slopes                                                             | 5500          | 7000          |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                       | <i>Franseria confertiflora</i>                             | Moist ground                                                                      | 5500          | 5500          |
| HEPU12      | <i>Hedeoma pulcherrima</i>                              | <i>Hedeoma pulcherrima</i>                                 | Canyon slopes                                                                     | 5500          | 5500          |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i>   | <i>Hymenopappus flavescens</i> var. <i>cano-tomentosus</i> | Gentle canyon slopes                                                              | 5500          | 5500          |
| IPLA2       | <i>Ipomopsis laxiflora</i>                              | <i>Ipomopsis laxiflora</i>                                 | Mesas                                                                             | 5500          | 6500          |
| JUTE        | <i>Juncus tenuis</i>                                    | <i>Juncus tenuis</i>                                       | Moist canyon slopes and wet areas on mesas                                        | 5500          | 7200          |
| LEOR        | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                                   | Wet canyon slopes, near springs                                                   | 5500          | 5500          |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>              | <i>Microsteris gracilis</i>                                | Canyon slopes, periodically flooded by lake waters                                | 5500          | 5500          |
| MURI2       | <i>Muhlenbergia rigens</i>                              | <i>Muhlenbergia rigens</i>                                 | Canyon bottoms and slopes and grass drainages on mesas                            | 5500          | 6750          |
| PELE2       | <i>Penstemon lentus</i>                                 | <i>Penstemon lentus</i>                                    | Dry hills, mesas                                                                  | 5500          | 8000          |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>          | <i>Poa longiligula</i>                                     | Rocky slopes and canyons                                                          | 5500          | 9500          |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                         | <i>Pyrrhopappus multicaulis</i>                            | Moist canyon slopes                                                               | 5500          | 5500          |
| SOJA        | <i>Solanum jamesii</i>                                  | <i>Solanum jamesii</i>                                     | Open wooded slopes                                                                | 5500          | 7500          |
| TRNE        | <i>Tragia nepetaefolia</i>                              | <i>Tragia nepetaefolia</i>                                 | Rocky canyon slopes                                                               | 5500          | 5500          |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>         | <i>Trifolium lacerum</i>                                   | Moist meadows                                                                     | 5500          | 8000          |
| VILE        | <i>Viburnum lentago</i>                                 | <i>Viburnum lentago</i>                                    | Along streams                                                                     | 5500          | 5500          |
| WOOR        | <i>Woodsia oregana</i>                                  | <i>Woodsia oregana</i>                                     | Dry rocky niches                                                                  | 5500          | 11500         |
| CALA30      | <i>Carex lanuginosa</i>                                 | <i>Carex lanuginosa</i>                                    | Canyon bottoms and slopes, streamside and near springs and boggy mountain meadows | 5550          | 9000          |

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|-------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|---------------|---------------|
| EVNU        | <i>Evolvulus nuttallianus</i>                         | <i>Evolvulus pilosus</i>                              | Canyon slopes                                                            | 5550          | 5550          |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>       | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>     | Dry canyon bottoms and slopes                                            | 5600          | 7200          |
| CABR10      | <i>Carex brevior</i>                                  | <i>Carex brevior</i>                                  | Canyon bottoms and moist slopes                                          | 5600          | 7200          |
| ERRH2       | <i>Erigeron rhizomatus</i>                            | <i>Erigeron rhizomatus</i>                            | Dry, sandy canyon slopes                                                 | 5600          | 5600          |
| PAHA        | <i>Panicum hallii</i>                                 | <i>Panicum hallii</i>                                 | Dry canyon slopes                                                        | 5600          | 5600          |
| ELRER       | <i>Elytrigia repens</i> var. <i>repens</i>            | <i>Agropyron repens</i>                               | Canyon bottoms                                                           | 5700          | 5700          |
| AGEX        | <i>Agrostis exarata</i>                               | <i>Agrostis exarata</i>                               | Canyon bottoms                                                           | 5700          | 5700          |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                             | Moist canyons, streamside                                                | 5700          | 6100          |
| COAU2       | <i>Corydalis aurea</i>                                | <i>Corydalis aurea</i>                                | Disturbed soil; juniper grassland to spruce-fir forest                   | 5700          | 9500          |
| EURO5       | <i>Euphorbia robusta</i>                              | <i>Euphorbia robusta</i>                              | Canyon bottoms and slopes                                                | 5700          | 6450          |
| MESC        | <i>Menodora scabra</i>                                | <i>Menodora scabra</i>                                | Dry canyon bottoms                                                       | 5700          | 5700          |
| RUPA5       | <i>Rumex patientia</i>                                | <i>Rumex patientia</i>                                | Canyon bottoms, streamside                                               | 5700          | 6950          |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                           | Canyon slopes                                                            | 5700          | 5700          |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>     | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>    | Dry canyon slopes                                                        | 5800          | 5800          |
| ASFL2       | <i>Astragalus flexuosus</i>                           | <i>Astragalus flexuosus</i>                           | Canyon bottoms and slopes and mesas                                      | 5800          | 6600          |
| PAIN2       | <i>Parthenium incanum</i>                             | <i>Parthenium incanum</i>                             | Dry canyon slopes                                                        | 5800          | 5800          |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>     | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>   | Dry canyon bottoms and slopes                                            | 5850          | 6000          |
| ASVI        | <i>Asclepias viridiflora</i>                          | <i>Asclepias viridiflora</i>                          | Dry canyon slopes and mesas                                              | 5900          | 7300          |
| CAOC2       | <i>Carex occidentalis</i>                             | <i>Carex occidentalis</i>                             | Canyon bottoms, wet areas on mesas, mountain meadows                     | 5900          | 9300          |
| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i> | <i>Thelesperma filifolium</i> var. <i>intermedium</i> | Disturbed canyon bottoms and mesas                                       | 5900          | 6600          |
| AECY        | <i>Aegilops cylindrica</i>                            | <i>Aegilops cylindrica</i>                            | Disturbed canyon bottoms                                                 | 6000          | 6000          |
| ELPS        | <i>Elymus X pseudorepens</i>                          | <i>Agropyron pseudorepens</i>                         | Mountains                                                                | 6000          | 7500          |
| POVI9       | <i>Polypogon viridis</i>                              | <i>Agrostis semiverticillata</i>                      | Moist canyon bottoms                                                     | 6000          | 6300          |
| ALTE        | <i>Allium textile</i>                                 | <i>Allium textile</i>                                 | Mesa tops; juniper grassland                                             | 6000          | 6500          |
| ALOB2       | <i>Alnus oblongifolia</i>                             | <i>Alnus oblongifolia</i>                             | Along streams; pinyon-juniper woodland, ponderosa pine forest            | 6000          | 7500          |
| ALINT       | <i>Alnus incana</i> ssp. <i>tenuifolia</i>            | <i>Alnus tenuifolia</i>                               | Along streams in canyons; pinyon-juniper woodland, ponderosa pine forest | 6000          | 7500          |
| AMAR2       | <i>Ambrosia artemisiifolia</i>                        | <i>Ambrosia artemisiifolia</i>                        | Moist canyon bottoms; pinyon-juniper woodland and Dry-moist              | 6000          | 6500          |
| AMUT        | <i>Amelanchier utahensis</i>                          | <i>Amelanchier utahensis</i>                          | Rocky slopes, canyon bottoms                                             | 6000          | 7500          |
| ANRO3       | <i>Antennaria rosulata</i>                            | <i>Antennaria rosulata</i>                            | Meadows and Dry                                                          | 6000          | 9000          |
| APCA        | <i>Apocynum cannabinum</i>                            | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>    | Disturbed soil; pinyon-juniper woodland                                  | 6000          | 6500          |
| AQCH        | <i>Aquilegia chrysantha</i>                           | <i>Aquilegia chrysantha</i>                           | Moist slopes and canyons                                                 | 6000          | 7000          |

# ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                     | Habitat                                                                      | Min Elev (ft) | Max Elev (ft) |
|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------|---------------|---------------|
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                                           | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                   | Rocky slopes in mountains                                                    | 6000          | 9000          |
| ARDI5       | <i>Aristida divaricata</i>                                                             | <i>Aristida divaricata</i>                                     | Dry disturbed soil, pinyon-juniper woodland                                  | 6000          | 6500          |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>                                       | <i>Artemisia campestris</i> subsp. <i>pacifica</i>             | Mountain slopes and Dry                                                      | 6000          | 8000          |
| BESY        | <i>Beckmannia syzigachne</i>                                                           | <i>Beckmannia syzigachne</i>                                   | Roadsides, moist canyon bottoms; pinyon-juniper woodland                     | 6000          | 6500          |
| BOBA2       | <i>Bouteloua barbata</i>                                                               | <i>Bouteloua barbata</i>                                       | Disturbed canyon bottoms                                                     | 6000          | 6000          |
| BOSI2       | <i>Bouteloua simplex</i>                                                               | <i>Bouteloua simplex</i>                                       | Roadsides; pinyon-juniper woodland                                           | 6000          | 6500          |
| BRCI2       | <i>Bromus ciliatus</i>                                                                 | <i>Bromus ciliatus</i>                                         | Meadows, moist ground                                                        | 6000          | 10000         |
| CANU3       | <i>Calochortus nuttallii</i>                                                           | <i>Calochortus nuttallii</i>                                   | Mesas; juniper grassland                                                     | 6000          | 6000          |
| CADR        | <i>Cardaria draba</i>                                                                  | <i>Cardaria draba</i>                                          | Disturbed areas of canyons and mesas                                         | 6000          | 7600          |
| CAAQ        | <i>Carex aquatilis</i>                                                                 | <i>Carex aquatilis</i>                                         | Wet ground                                                                   | 6000          | 11000         |
| CADU6       | <i>Carex duriuscula</i>                                                                | <i>Carex eleocharis</i>                                        | Open ground, meadows                                                         | 6000          | 8000          |
| CAXE        | <i>Carex xerantica</i>                                                                 | <i>Carex xerantica</i>                                         | Damp ground, meadows                                                         | 6000          | 9000          |
| CEIN4       | <i>Cenchrus incertus</i>                                                               | <i>Cenchrus pauciflorus</i>                                    | Disturbed soil; juniper grassland, pinyon-juniper woodland                   | 6000          | 6500          |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>                                       | <i>Cercocarpus montanus</i> var. <i>montanus</i>               | Canyon sides, mesas; juniper grassland, pinyon-juniper woodland, pine forest | 6000          | 8000          |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>                                  | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>          | Dry slopes                                                                   | 6000          | 8500          |
| CHAL7       | <i>Chenopodium album</i>                                                               | <i>Chenopodium album</i>                                       | Disturbed soil                                                               | 6000          | 8000          |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                                        | <i>Chenopodium leptophyllum</i>                                | Disturbed soil; pinyon-juniper woodland and ponderosa pine forest            | 6000          | 7500          |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         | Disturbed soil, roadsides; pinyon-juniper woodland                           | 6000          | 6500          |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> | Disturbed soil; juniper grassland, pinyon-juniper woodland                   | 6000          | 7000          |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          | Moist woods                                                                  | 6000          | 8000          |
| CLLI2       | <i>Clematis ligusticifolia</i>                                                         | <i>Clematis ligusticifolia</i>                                 | Disturbed soil, canyon bottoms; pinyon-juniper woodland, ponderosa pine      | 6000          | 6500          |
| CLVU        | <i>Clinopodium vulgare</i>                                                             | <i>Clinopodium vulgare</i>                                     | Canyons and mesas                                                            | 6000          | 7000          |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i>                                         | <i>Cuscuta campestris</i>                                      | Canyon bottoms                                                               | 6000          | 6000          |
| CYBU        | <i>Cymopterus bulbosus</i>                                                             | <i>Cymopterus bulbosus</i>                                     | Mesa tops                                                                    | 6000          | 7000          |
| CYFE2       | <i>Cyperus fendlerianus</i>                                                            | <i>Cyperus fendlerianus</i>                                    | Canyon bottoms                                                               | 6000          | 8500          |
| DABR        | <i>Dalea brachystachya</i>                                                             | <i>Dalea brachystachys</i>                                     | Canyon bottoms; pinyon-juniper woodland                                      | 6000          | 6500          |
| DRFI2       | <i>Dryopteris filix-mas</i>                                                            | <i>Dryopteris filix-mas</i>                                    | Damp rocky places, along streams                                             | 6000          | 9000          |
| DYPA        | <i>Dyssodia papposa</i>                                                                | <i>Dyssodia papposa</i>                                        | Disturbed soil; juniper grassland, pinyon-juniper woodland                   | 6000          | 7000          |
| ECFE        | <i>Echinocereus fendleri</i>                                                           | <i>Echinocereus fendleri</i>                                   | Sandy or gravelly soils on mesas or slopes                                   | 6000          | 8000          |
| ELCA4       | <i>Elymus canadensis</i>                                                               | <i>Elymus canadensis</i>                                       | Damp ground; pinyon-juniper woodland                                         | 6000          | 6500          |
| ERIC6       | <i>Erodium cicutarium</i>                                                              | <i>Erodium cicutarium</i>                                      | Disturbed soil; pinyon-juniper woodland                                      | 6000          | 7000          |
| EUDE4       | <i>Euphorbia dentata</i>                                                               | <i>Euphorbia dentata</i>                                       | Disturbed soil                                                               | 6000          | 7000          |



### ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                  | Martin and Hutchins (1980)                       | Habitat                                                                           | Min Elev (ft) | Max Elev (ft) |
|-------------|---------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|---------------|---------------|
| GECA3       | <i>Geranium caespitosum</i>                       | <i>Geranium caespitosum</i>                      | Canyon bottoms, mountain slopes; pinyon-juniper woodland                          | 6000          | 9000          |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i> | <i>Geranium fremontii</i>                        | Forested slopes and canyons                                                       | 6000          | 9000          |
| GLGR        | <i>Glyceria grandis</i>                           | <i>Glyceria grandis</i>                          | Moist canyons and mountain slopes, in shallow streamwater                         | 6000          | 9100          |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                       | <i>Glycyrrhiza lepidota</i>                      | Banks of Rio Grande, roadsides; juniper grassland, pinyon-juniper woodland        | 6000          | 6500          |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>      | <i>Grindelia aphanactis</i>                      | Disturbed soil; pinyon-juniper woodland                                           | 6000          | 6500          |
| MAGR10      | <i>Machaeranthera gracilis</i>                    | <i>Haplopappus gracilis</i>                      | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forests | 6000          | 7000          |
| HEPE        | <i>Helianthus petiolaris</i>                      | <i>Helianthus petiolaris</i>                     | Disturbed soils; ponderosa pine, pinyon-juniper woodland                          | 6000          | 7500          |
| PLJA        | <i>Pleuraphis jamesii</i>                         | <i>Hilaria jamesii</i>                           | Mesa tops                                                                         | 6000          | 6500          |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>     | <i>Humulus americanus</i>                        | Mostly along streams                                                              | 6000          | 7500          |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                   | <i>Hymenopappus tenuifolius</i>                  | Disturbed soil; juniper grassland, pinyon-juniper woodland                        | 6000          | 6500          |
| JUBU        | <i>Juncus bufonius</i>                            | <i>Juncus bufonius</i>                           | Moist canyon bottoms; pinyon-juniper woodland                                     | 6000          | 6500          |
| KOSC        | <i>Kochia scoparia</i>                            | <i>Kochia scoparia</i>                           | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest                    | 6000          | 7000          |
| LASE        | <i>Lactuca serriola</i>                           | <i>Lactuca serriola</i>                          | Disturbed soil; juniper grassland, pinyon-juniper woodland                        | 6000          | 6500          |
| LIVU2       | <i>Linaria vulgaris</i>                           | <i>Linaria vulgaris</i>                          | Disturbed soil                                                                    | 6000          | 7000          |
| LIRI        | <i>Linum rigidum</i>                              | <i>Linum rigidum</i> "complex"                   | Dry canyon bottoms and slopes and mesas                                           | 6000          | 7850          |
| LUAM        | <i>Lupinus ammophilus</i>                         | <i>Lupinus ammophilus</i>                        | Sandy soil                                                                        | 6000          | 8000          |
| LUKI        | <i>Lupinus kingii</i>                             | <i>Lupinus kingii</i>                            | Disturbed soil; juniper grassland, pinyon-juniper woodland                        | 6000          | 6500          |
| PSAS2       | <i>Psilactis asteroides</i>                       | <i>Machaeranthera amplifolia</i>                 | Restricted to rocky slopes                                                        | 6000          | 7000          |
| MABI        | <i>Machaeranthera bigelovii</i>                   | <i>Machaeranthera bigelovii</i>                  | Disturbed soil, roadsides                                                         | 6000          | 9000          |
| MATA2       | <i>Machaeranthera tanacetifolia</i>               | <i>Machaeranthera tanacetifolia</i>              | Roadsides, disturbed soils                                                        | 6000          | 6500          |
| NOST        | <i>Notholaena standleyi</i>                       | <i>Notholaena standleyi</i>                      | Canyon slopes, on cliffs and boulders                                             | 6000          | 6000          |
| OEAL        | <i>Oenothera albicaulis</i>                       | <i>Oenothera albicaulis</i>                      | Disturbed soil, roadsides                                                         | 6000          | 7500          |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>        | <i>Oenothera hookeri</i>                         | Disturbed soil, canyon bottoms; juniper grassland, pinyon-juniper woodland        | 6000          | 8000          |
| OELA        | <i>Oenothera laciniata</i>                        | <i>Oenothera laciniata</i> var. <i>laciniata</i> | Mesas and slopes                                                                  | 6000          | 8000          |
| ORLU        | <i>Orobanche ludoviciana</i>                      | <i>Orobanche ludoviciana</i>                     | Canyon bottoms                                                                    | 6000          | 6000          |
| OXAL2       | <i>Oxalis alpina</i>                              | <i>Oxalis metcalfei</i>                          | Shaded slopes                                                                     | 6000          | 9000          |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                 | <i>Pediocactus papyracanthus</i>                 | Mesas; pinyon-juniper woodland                                                    | 6000          | 7000          |
| PEEA        | <i>Penstemon eatonii</i>                          | <i>Penstemon eatonii</i>                         | Canyons                                                                           | 6000          | 7000          |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>          | <i>Petalostemum candidum</i>                     | Disturbed soil; juniper grassland, pinyon-juniper woodland, ponderosa pine        | 6000          | 8000          |

## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                            | Habitat                                                                                   | Min Elev (ft) | Max Elev (ft) |
|-------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------|---------------|
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>            | <i>Petalostemum compactum</i>                         | Disturbed soil; pinyon-juniper woodland                                                   | 6000          | 6500          |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>      | <i>Physalis foetens</i> var. <i>neomexicana</i>       | Disturbed soil; juniper grassland, pinyon-juniper woodland                                | 6000          | 7000          |
| PLAR2       | <i>Plantago argyraea</i>                              | <i>Plantago argyraea</i>                              | Slopes and woods                                                                          | 6000          | 7000          |
| POFE        | <i>Poa fendleriana</i>                                | <i>Poa fendleriana</i>                                | Meadows and canyons                                                                       | 6000          | 11000         |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>  | <i>Polanisia trachysperma</i>                         | Sandy canyons and arroyos; juniper grassland                                              | 6000          | 6500          |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>      | <i>Prunus virginiana</i> var. <i>melanocarpa</i>      | Along streams, rocky canyons; pinyon-juniper woodland, ponderosa pine forest              | 6000          | 7500          |
| RAMA2       | <i>Ranunculus macounii</i>                            | <i>Ranunculus macounii</i>                            | Moist woods                                                                               | 6000          | 8500          |
| RONE        | <i>Robinia neomexicana</i>                            | <i>Robinia neomexicana</i>                            | Canyons, open woods, and roadsides                                                        | 6000          | 9500          |
| RONU        | <i>Rosa nutkana</i>                                   | <i>Rosa nutkana</i>                                   | Open wooded slopes                                                                        | 6000          | 9000          |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>               | <i>Rosa woodsii</i> var. <i>fendleri</i>              | Canyons and mountain slopes                                                               | 6000          | 9000          |
| SARE3       | <i>Salvia reflexa</i>                                 | <i>Salvia reflexa</i>                                 | Disturbed soil                                                                            | 6000          | 6500          |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                         | Canyons, mesas; juniper grassland, pinyon-juniper woodland                                | 6000          | 7000          |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                           | pinyon-juniper woodland                                                                   | 6000          | 7000          |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                               | Meadows                                                                                   | 6000          | 9000          |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                          | Riparian canyon bottoms; juniper grassland, meadows                                       | 6000          | 9000          |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> | Moist canyon bottoms                                                                      | 6000          | 6700          |
| SPIN3       | <i>Sphenopholis intermedia</i>                        | <i>Sphenopholis intermedia</i>                        | Moist meadows                                                                             | 6000          | 8000          |
| SPCO4       | <i>Sporobolus contractus</i>                          | <i>Sporobolus contractus</i>                          | Canyon bottoms; pinyon-juniper woodland                                                   | 6000          | 6500          |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>         | <i>Stipa comata</i>                                   | Mesa tops, disturbed soil; pinyon-juniper woodland                                        | 6000          | 6500          |
| TOEX2       | <i>Townsendia exscapa</i>                             | <i>Townsendia exscapa</i>                             | Mesa tops; pinyon-juniper woodland                                                        | 6000          | 6500          |
| TYLA        | <i>Typha latifolia</i>                                | <i>Typha latifolia</i>                                | Ponded water in canyons; juniper grassland, pinyon-juniper woodland, pine forest          | 6000          | 8000          |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>             | <i>Urtica dioica-procera</i>                          | Along streams, moist meadows                                                              | 6000          | 8500          |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>             | <i>Urtica gracilis</i>                                | Along streams, moist meadows                                                              | 6000          | 8500          |
| VETH        | <i>Verbascum thapsus</i>                              | <i>Verbascum thapsus</i>                              | Disturbed soils, roadsides                                                                | 6000          | 7500          |
| VEBR        | <i>Verbena bracteata</i>                              | <i>Verbena bracteata</i>                              | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest                            | 6000          | 7500          |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>      | <i>Veronica peregrina</i> var. <i>xalapensis</i>      | Moist places, along streams, marshy areas                                                 | 6000          | 8500          |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>          | <i>Vicia americana</i> var. <i>americana</i>          | Moist canyon bottoms, mountain slopes, meadows; pinyon-juniper woodland, pine , mixed con | 6000          | 9500          |
| VILE3       | <i>Vicia leucophaea</i>                               | <i>Vicia leucophaea</i>                               | Slopes                                                                                    | 6000          | 8000          |
| CYEC        | <i>Cynosurus echinatus</i>                            | <i>Cynosurus echinatus</i>                            | Moist canyon bottoms                                                                      | 6100          | 6100          |
| EPTO        | <i>Ephedra torreyana</i>                              | <i>Ephedra torreyana</i>                              | Dry mesas                                                                                 | 6100          | 6100          |

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|-------------|---------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------|
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i> | <i>Gnaphalium wrightii</i>                             | Dry canyon slopes and mountain slopes                                               | 6100          | 6500          |
| NOMI        | <i>Nolina microcarpa</i>                                | <i>Nolina microcarpa</i>                               | Moist canyon bottoms and slopes                                                     | 6100          | 6100          |
| TECA2       | <i>Tetradymia canescens</i>                             | <i>Tetradymia canescens</i> var. <i>inermis</i>        | Dry mesas                                                                           | 6100          | 6500          |
| ZIGR        | <i>Zinnia grandiflora</i>                               | <i>Zinnia grandiflora</i>                              | Dry mesas                                                                           | 6100          | 6100          |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>           | <i>Solidago altissima</i>                              | Canyon slopes and bottoms, and mesas                                                | 6150          | 6600          |
|             |                                                         | <i>Woodsia mexicana</i>                                | Canyon slopes, on cliffs and boulders                                               | 6150          | 6150          |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>            | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>   | Canyon bottoms and slopes and mesas                                                 | 6200          | 7850          |
| PABU        | <i>Panicum bulbosum</i>                                 | <i>Panicum bulbosum</i>                                | Canyon bottoms and slopes                                                           | 6200          | 7200          |
| SIIR        | <i>Sisymbrium irio</i>                                  | <i>Sisymbrium iroio</i>                                | Disturbed canyon bottoms                                                            | 6200          | 6200          |
| ALMA4       | <i>Allium macropetalum</i>                              | <i>Allium macropetalum</i>                             | Dry mesas                                                                           | 6250          | 6250          |
| DRRE2       | <i>Draba reptans</i>                                    | <i>Draba reptans</i>                                   | Mesas                                                                               | 6250          | 6250          |
| LUBR2       | <i>Lupinus brevicaulis</i>                              | <i>Lupinus brevicaulis</i>                             | Mesas                                                                               | 6250          | 6250          |
| ERTR3       | <i>Eragrostis trichodes</i>                             | <i>Eragrostis trichodes</i>                            | Disturbed canyon slopes, roadsides                                                  | 6300          | 6300          |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>      | <i>Torreyochloa pauciflora</i>                         | Moist canyon bottoms, streamside                                                    | 6300          | 6300          |
| BRFE        | <i>Brickellia fendleri</i>                              | <i>Brickellia fendleri</i>                             | Canyon bottoms and slopes                                                           | 6350          | 7150          |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>           | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i>  | Moist canyon bottoms and slopes, mountain slopes and meadows                        | 6350          | 8950          |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                              | Moist canyon bottoms                                                                | 6350          | 6450          |
| PHCO        | <i>Phacelia coerulea</i>                                | <i>Phacelia coerulea</i>                               | Canyon slopes and mesas                                                             | 6400          | 6400          |
| STCO6       | <i>Streptanthus cordatus</i>                            | <i>Streptanthus cordatus</i>                           | Canyon slopes                                                                       | 6400          | 6400          |
| ACGLN2      | <i>Acer glabrum</i> var. <i>neomexicanum</i>            | <i>Acer glabrum</i> var. <i>neomexicanum</i>           | Meadows, canyons; mixed-conifer forests and moist-wet                               | 6500          | 8000          |
| AGGR2       | <i>Agrimonia gryposepala</i>                            | <i>Agrimonia gryposepala</i>                           | Canyons                                                                             | 6500          | 8000          |
| PASM        | <i>Pascopyrum smithii</i>                               | <i>Agropyron smithii</i>                               | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest                      | 6500          | 7500          |
| AGGI2       | <i>Agrostis gigantea</i>                                | <i>Agrostis alba</i>                                   | Canyon bottoms, meadows, mountain slopes; pinyon juniper woodland, ponderosa        | 6500          | 8500          |
| ALGE        | <i>Allium geyeri</i>                                    | <i>Allium geyeri</i>                                   | Meadows and slopes                                                                  | 6500          | 12000         |
| ANCY        | <i>Anemone cylindrica</i>                               | <i>Anemone cylindrica</i>                              | Moist meadows, along streams                                                        | 6500          | 8000          |
| ANPI2       | <i>Angelica pinnata</i>                                 | <i>Angelica pinnata</i>                                | Wet meadows and along streams                                                       | 6500          | 9000          |
| ANPA4       | <i>Antennaria parvifolia</i>                            | <i>Antennaria parvifolia</i>                           | Canyons, mountain slopes; pinyon-juniper woodland, ponderosa pine and mixed conifer | 6500          | 8500          |
| ANRO2       | <i>Antennaria rosea</i>                                 | <i>Antennaria rosea</i>                                | Mesas                                                                               | 6500          | 6500          |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> | Mountain slopes, disturbed soils                                                    | 6500          | 9000          |
| ASSP        | <i>Asclepias speciosa</i>                               | <i>Asclepias speciosa</i>                              | Disturbed soil                                                                      | 6500          | 7500          |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>          | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>     | Canyons; ponderosa pine forest                                                      | 6500          | 7500          |

## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                   | Martin and Hutchins (1980)                      | Habitat                                                                   | Min Elev (ft) | Max Elev (ft) |
|-------------|----------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|---------------|---------------|
| ASTR2       | <i>Asplenium trichomanes</i>                       | <i>Asplenium trichomanes</i>                    | Rocky places, especially niches in canyon walls and cliffs                | 6500          | 9000          |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>       | <i>Aster glaucodes</i> var. <i>glaucodes</i>    | Mesas, slopes                                                             | 6500          | 9000          |
| ALPA14      | <i>Almutaster pauciflorus</i>                      | <i>Aster pauciflorus</i>                        | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest            | 6500          | 7000          |
| ASLO3       | <i>Astragalus lonchocarpus</i>                     | <i>Astragalus lonchocarpus</i>                  | Mesas, roadsides                                                          | 6500          | 6500          |
| BEFE        | <i>Berberis fendleri</i>                           | <i>Berberis fendleri</i>                        | Canyons and slopes; ponderosa pine and mixed conifer forests              | 6500          | 8500          |
| BEOC2       | <i>Betula occidentalis</i>                         | <i>Betula occidentalis</i>                      | Along streams; ponderosa pine and mixed conifer forests                   | 6500          | 8000          |
| BRFR2       | <i>Bromus frondosus</i>                            | <i>Bromus frondosus</i>                         | Canyon bottoms; pinyon-juniper woodland, ponderosa pine forest            | 6500          | 7000          |
| BRLA6       | <i>Bromus lanatipes</i>                            | <i>Bromus lanatipes</i>                         | Moist slopes                                                              | 6500          | 8500          |
| CAGE        | <i>Carex geophila</i>                              | <i>Carex geophila</i>                           | Mesas; pinyon-juniper woodland                                            | 6500          | 8500          |
| CALI4       | <i>Castilleja linariaefolia</i>                    | <i>Castilleja linariaefolia</i>                 | Canyon bottoms                                                            | 6500          | 7000          |
| COLI2       | <i>Collomia linearis</i>                           | <i>Collomia linearis</i>                        | Canyon bottoms; juniper grassland, pinyon-juniper woodland                | 6500          | 7000          |
| CODI4       | <i>Commelina dianthifolia</i>                      | <i>Commelina dianthifolia</i>                   | Open woods, roadsides                                                     | 6500          | 9000          |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>      | <i>Conopholis mexicana</i>                      | Canyon slopes and mountain slopes                                         | 6500          | 8000          |
| COAR4       | <i>Convolvulus arvensis</i>                        | <i>Convolvulus arvensis</i>                     | Roadsides; pinyon-juniper woodland                                        | 6500          | 7000          |
| DEPI        | <i>Descurainia pinnata</i>                         | <i>Descurainia pinnata</i>                      | Disturbed soil; pinyon-juniper woodland                                   | 6500          | 7000          |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>       | <i>Descurainia richardsonii</i>                 | Disturbed soil                                                            | 6500          | 10000         |
| DOAL        | <i>Dodecatheon alpinum</i>                         | <i>Dodecatheon alpinum</i>                      | Moist meadows                                                             | 6500          | 9500          |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i> | <i>Eragrostis arida</i>                         | Disturbed soil; pinyon-juniper woodland                                   | 6500          | 7500          |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i> | <i>Erigeron formosissimus viscidus</i>          | Canyon bottoms and slopes                                                 | 6500          | 7400          |
| ERVR        | <i>Erigeron vreelandii</i>                         | <i>Erigeron platyphyllus</i>                    | Wooded slopes, mesas                                                      | 6500          | 9000          |
| ERCE2       | <i>Eriogonum cernuum</i>                           | <i>Eriogonum cernuum</i>                        | Disturbed soil; juniper grassland, pinyon-juniper woodland                | 6500          | 7500          |
| ERJA        | <i>Eriogonum jamesii</i>                           | <i>Eriogonum jamesii</i>                        | Canyon sides, disturbed soil; juniper grassland, pinyon-juniper woodland  | 6500          | 7500          |
| ERRA3       | <i>Eriogonum racemosum</i>                         | <i>Eriogonum racemosum</i>                      | Mesa tops, disturbed soil; juniper grassland, pinyon-juniper woodland     | 6500          | 7000          |
| FEAR2       | <i>Festuca arizonica</i>                           | <i>Festuca arizonica</i>                        | Dry slopes and open woods                                                 | 6500          | 9000          |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>        | <i>Fragaria americana</i>                       | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests | 6500          | 9000          |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                 | <i>Franseria acanthicarpa</i>                   | Sandy soil, disturbed soil                                                | 6500          | 8000          |
| GAMI        | <i>Galium microphyllum</i>                         | <i>Galium microphyllum</i>                      | Canyons                                                                   | 6500          | 9000          |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>     | <i>Galium tinctorum</i> var. <i>subbiflorum</i> | Moist ground                                                              | 6500          | 9000          |
| GLBO        | <i>Glyceria borealis</i>                           | <i>Glyceria borealis</i>                        | Marshy meadows                                                            | 6500          | 10000         |

## ELEVATION CON'T

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|-------------|------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------|---------------|
| GRSQ        | <i>Grindelia squarrosa</i>                                             | <i>Grindelia squarrosa</i>                                | Mesa tops                                                                                     | 6500          | 7000          |
| HOJU        | <i>Hordeum jubatum</i>                                                 | <i>Hordeum jubatum</i>                                    | Disturbed soil, canyon bottoms; ponderosa pine forest                                         | 6500          | 7500          |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>                   | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>      | Disturbed soil; juniper grassland, pinyon-juniper, ponderosa, and mixed conifer               | 6500          | 8000          |
| IPCO3       | <i>Ipomoea coccinea</i>                                                | <i>Ipomoea coccinea</i>                                   | Disturbed soil; pinyon-juniper woodland                                                       | 6500          | 7000          |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>                      | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>           | Dry ground                                                                                    | 6500          | 9000          |
| JAAM        | <i>Jamesia americana</i>                                               | <i>Jamesia americana</i>                                  | Canyon sides, mountain slopes                                                                 | 6500          | 9000          |
| JUCO2       | <i>Juncus confusus</i>                                                 | <i>Juncus confusus</i>                                    | Moist meadows                                                                                 | 6500          | 8000          |
| JUIN2       | <i>Juncus interior</i>                                                 | <i>Juncus interior</i>                                    | Moist canyon bottoms; ponderosa pine forest                                                   | 6500          | 8000          |
| JUDE2       | <i>Juniperus deppeana</i>                                              | <i>Juniperus deppeana</i>                                 | Dry, often rocky slopes                                                                       | 6500          | 8000          |
| KOMA        | <i>Koeleria macrantha</i>                                              | <i>Koeleria cristata</i>                                  | Canyon bottoms, mesas tops, mountain slopes                                                   | 6500          | 9500          |
| LABI        | <i>Lactuca biennis</i>                                                 | <i>Lactuca spicata</i>                                    | Moist canyon bottoms                                                                          | 6500          | 6500          |
| LIAQ        | <i>Limosella aquatica</i>                                              | <i>Limosella aquatica</i>                                 | Marshy canyon bottoms                                                                         | 6500          | 7000          |
| LOWR        | <i>Lotus wrightii</i>                                                  | <i>Lotus wrightii</i>                                     | Canyon bottoms, mesas tops; pinyon-juniper woodland, ponderosa pine forests                   | 6500          | 7500          |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                        | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i>         | Disturbed soils, canyon bottoms, roadsides; pinyon-juniper woodland, ponderosa, mixed conifer | 6500          | 7500          |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i>                        | <i>Mertensia lanceolata</i> var. <i>fenderli</i>          | Canyon bottoms, mountain sides; pinyon-juniper woodland, ponderosa pine                       | 6500          | 9000          |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                     | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>        | Canyons, mountain slopes, meadows                                                             | 6500          | 10000         |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                               | Canyon bottoms, open meadows                                                                  | 6500          | 9000          |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                                  | Dry disturbed soil                                                                            | 6500          | 7500          |
| OECE2       | <i>Oenothera caespitosa</i>                                            | <i>Oenothera caespitosa</i>                               | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest                                | 6500          | 7000          |
| OECM3       | <i>Oenothera caespitosa</i> ssp. <i>macroglottis</i>                   | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>          | Mesas and canyons                                                                             | 6500          | 7000          |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                                       | <i>Orthocarpus purpureo-albus</i>                         | Mesa tops and open canyon bottoms; pinyon-juniper woodland                                    | 6500          | 7000          |
| OXLA3       | <i>Oxytropis lambertii</i>                                             | <i>Oxytropis lambertii</i>                                | Mesas, roadside                                                                               | 6500          | 6600          |
| PAMY        | <i>Paxistima myrsinites</i>                                            | <i>Pachystima myrsinites</i>                              | Canyons, mountain slopes; ponderosa pine forest and Moist                                     | 6500          | 7000          |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>                          | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>           | Disturbed soil, roadsides, mesas                                                              | 6500          | 9500          |
| DAEX2       | <i>Dalea exigua</i>                                                    | <i>Petalostemum exile</i>                                 | Disturbed soil; pinyon-juniper woodland                                                       | 6500          | 7000          |
| PHIN        | <i>Phacelia integrifolia</i>                                           | <i>Phacelia integrifolia</i>                              | Disturbed soil                                                                                | 6500          | 7000          |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i>              | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | Moist canyon bottoms; rocky slopes                                                            | 6500          | 8000          |

### ELEVATION CON'T

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|-------------|----------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------|---------------|---------------|
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i> | <i>Polygonum amphibium</i> var. <i>stipulaceum</i> | Floating in water                                                                     | 6500          | 8500          |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i>  | <i>Polygonum sawatchense</i>                       | Meadows in mountains                                                                  | 6500          | 8000          |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>   | <i>Potentilla arguta</i> subsp. <i>convallaria</i> | Meadows                                                                               | 6500          | 9000          |
| PONO3       | <i>Potentilla norvegica</i>                        | <i>Potentilla norvegica</i>                        | Moist canyon bottoms, marshy areas; pinyon-juniper woodland, ponderosa pine           | 6500          | 7000          |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>    | <i>Prunus emarginata</i> var. <i>emarginata</i>    | Slopes                                                                                | 6500          | 9000          |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>    | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>    | Canyon sides, canyon bottoms, mountain slopes; mixed conifer forests                  | 6500          | 10000         |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>  | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>  | Canyon sides; juniper grassland, pinyon-juniper woodland, ponderosa pine forest       | 6500          | 7000          |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>     | <i>Pulsatilla ludoviciana</i>                      | Canyon bottoms, mesa tops; ponderosa pine forest                                      | 6500          | 7500          |
| QUGA        | <i>Quercus gambelii</i>                            | <i>Quercus gambelii</i>                            | Canyons, mountain slopes, mesas; pinyon-juniper woodland, ponderosa and mixed conifer | 6500          | 8500          |
| QUPA4       | <i>Quercus X pauciloba</i>                         | <i>Quercus undulata</i>                            | Canyon bottom and mesas; pinyon-juniper woodland, ponderosa pine forest               | 6500          | 7500          |
| RHTR        | <i>Rhus trilobata</i>                              | <i>Rhus trilobata</i>                              | Canyon bottoms, mesas; juniper grassland, pinyon juniper woodland                     | 6500          | 7000          |
| RILE        | <i>Ribes leptanthum</i>                            | <i>Ribes leptanthum</i>                            | Canyon sides and mountain slopes; mixed conifer forests                               | 6500          | 8000          |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>          | <i>Rubus strigosus</i> var. <i>arizonicus</i>      | Canyon bottoms, slopes                                                                | 6500          | 11000         |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>            | <i>Salix caudata</i>                               | Along streams, moist places; pinyon-juniper woodland, ponderosa pine forest           | 6500          | 7000          |
| SASU7       | <i>Salvia subincisa</i>                            | <i>Salvia subincisa</i>                            | Disturbed mesas                                                                       | 6500          | 6500          |
| SEFE        | <i>Senecio fendleri</i>                            | <i>Senecio fendleri</i>                            | Canyon bottoms, disturbed soil; ponderosa pine and mixed conifer forests              | 6500          | 8500          |
| SESP3       | <i>Senecio spartioides</i>                         | <i>Senecio spartioides</i>                         | Mountains, valleys, open slopes                                                       | 6500          | 9000          |
| SIAN2       | <i>Silene antirrhina</i>                           | <i>Silene antirrhina</i>                           | Slopes, fields, disturbed soils and Dry-moist                                         | 6500          | 9000          |
| SINO        | <i>Silene noctiflora</i>                           | <i>Silene noctiflora</i>                           | Meadows, cultivated and disturbed soils and Dry-Moist                                 | 6500          | 9000          |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>       | <i>Solidago pallida</i>                            | Canyon bottoms                                                                        | 6500          | 6500          |
| SOAS        | <i>Sonchus asper</i>                               | <i>Sonchus asper</i>                               | Disturbed soil; pinyon-juniper woodland                                               | 6500          | 7000          |
| STPA        | <i>Stachys palustris</i>                           | <i>Stachys palustris</i>                           | Moist shady places                                                                    | 6500          | 9000          |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                   | <i>Symphoricarpos oreophilus</i>                   | Along streams                                                                         | 6500          | 9000          |
| TRDU        | <i>Tragopogon dubius</i>                           | <i>Tragopogon dubius</i>                           | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forest      | 6500          | 8000          |
| TRPE4       | <i>Triodanis perfoliata</i>                        | <i>Triodanis perfoliata</i>                        | Disturbed ground moist areas; pinyon-juniper woodland                                 | 6500          | 7500          |

## ELEVATION CON'T

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|-------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------|---------------|
| URGR        | <i>Urtica gracilenta</i>                                      | <i>Urtica gracilenta</i>                                      | Along streams, moist meadows                                                                      | 6500          | 8000          |
| VAAR3       | <i>Valeriana arizonica</i>                                    | <i>Valeriana arizonica</i>                                    | Moist canyons, mountain slopes; ponderosa pine and mixed conifer forests                          | 6500          | 8000          |
| VEMA        | <i>Verbena macdougallii</i>                                   | <i>Verbena macdougallii</i>                                   | Meadows                                                                                           | 6500          | 8000          |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i>           | <i>Viguiera multiflora</i>                                    | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forest                  | 6500          | 9000          |
| AMUTU       | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>            | <i>Amelanchier bakeri</i>                                     | Moist canyon bottoms                                                                              | 6600          | 8000          |
| CHTO2       | <i>Cheilanthes tomentosa</i>                                  | <i>Cheilanthes tomentosa</i>                                  | Canyon slopes, on cliffs and boulders                                                             | 6600          | 6600          |
| CIVU        | <i>Cirsium vulgare</i>                                        | <i>Cirsium vulgare</i>                                        | Moist canyon bottoms and roadside on moist slopes                                                 | 6600          | 9000          |
| CYSQ        | <i>Cyperus squarrosus</i>                                     | <i>Cyperus aristatus</i>                                      | Moist canyon bottoms, streamside                                                                  | 6600          | 7700          |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                 | <i>Chrysanthamnus parryi</i> subsp. <i>howardii</i>           | Canyon slopes                                                                                     | 6650          | 6650          |
| DALE3       | <i>Dalea leporina</i>                                         | <i>Dalea leporina</i>                                         | Mesas, roadside                                                                                   | 6650          | 7000          |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>          | <i>Habenaria hyperborea</i>                                   | Moist canyon bottoms, streamside                                                                  | 6700          | 8000          |
| SOMO        | <i>Solidago mollis</i>                                        | <i>Solidago mollis</i>                                        | Canyon bottoms                                                                                    | 6700          | 6700          |
| CABO2       | <i>Carex bolanderi</i>                                        | <i>Carex bolanderi</i>                                        | Moist canyon bottoms                                                                              | 6800          | 6800          |
| SENEH       | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>          | <i>Senecio eurypterus</i>                                     | Moist canyon bottoms                                                                              | 6800          | 6800          |
| CEAR4       | <i>Cerastium arvense</i>                                      | <i>Cerastium arvense</i>                                      | Moist canyon bottoms, mountain slopes, and meadows                                                | 6850          | 9850          |
| RAAB        | <i>Ranunculus abortivus</i>                                   | <i>Ranunculus abortivus</i>                                   | Moist canyon bottoms                                                                              | 6850          | 6850          |
| ELLAL       | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>             | <i>Agropyron dasystachyum</i>                                 | Mesas                                                                                             | 6900          | 7150          |
| ACMIO       | <i>Achillea millefolium</i> var. <i>occidentalis</i>          | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i>               | Canyons, mountain slopes, meadows; pinyon-juniper, ponderosa pine, mixed conifer                  | 7000          | 10000         |
| AGPA        | <i>Agastache pallidiflora</i>                                 | <i>Agastache pallidiflora</i>                                 | Slopes and mesas; ponderosa pine and mixed conifer forests                                        | 7000          | 9500          |
| AGGLL       | <i>Agoseris glauca</i> var. <i>laciniata</i>                  | <i>Agoseris arizonica</i>                                     | Meadows                                                                                           | 7000          | 10000         |
| ELTRT       | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>           | <i>Agropyron trachycaulum</i>                                 | Transplant La Mesa fire, roadsides; pinyon-juniper woodland, mixed conifer forests                | 7000          | 9000          |
| AGID        | <i>Agrostis idahoensis</i>                                    | <i>Agrostis idahoensis</i>                                    | Meadows                                                                                           | 7000          | 10000         |
| ALCEO       | <i>Allium cernuum</i> var. <i>obtusum</i>                     | <i>Allium cernuum</i> var. <i>obtusum</i>                     | Canyons, mesas, meadows, mountain slopes; pinyon-juniper woodland, pine, mixed conifer, subalpine | 7000          | 10000         |
| AMPU5       | <i>Amelanchier pumila</i>                                     | <i>Amelanchier polycarpa</i>                                  | Mixed conifer forest                                                                              | 7000          | 9000          |
| ANMA        | <i>Anaphalis margaritacea</i>                                 | <i>Anaphalis margaritacea</i>                                 | Canyons; ponderosa pine and mixed conifer forests and dry-moist                                   | 7000          | 8000          |
| ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>       | <i>Androsace septentrionalis</i> var. <i>subulifera</i>       | Canyon bottoms, meadows, mountain slopes; pine, mixed conifer, subalpine meadows                  | 7000          | 10000         |
| ANMA5       | <i>Antennaria marginata</i>                                   | <i>Antennaria marginata</i>                                   | Open woods                                                                                        | 7000          | 9000          |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> | Disturbed soil, roadsides; ponderosa pine forest                                                  | 7000          | 9000          |

## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                       | Martin and Hutchins (1980)                              | Habitat                                                                          | Min Elev (ft) | Max Elev (ft) |
|-------------|--------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------|---------------|---------------|
| AQEL        | <i>Aquilegia elegantula</i>                            | <i>Aquilegia elegantula</i>                             | Canyon bottoms, moist slopes                                                     | 7000          | 10000         |
| ARDR        | <i>Arabis drummondii</i>                               | <i>Arabis drummondii</i>                                | Meadows, open woods                                                              | 7000          | 9000          |
| ARRA        | <i>Aralia racemosa</i>                                 | <i>Aralia racemosa</i>                                  | Canyons, mountain slopes                                                         | 7000          | 9000          |
| ARDO        | <i>Arceuthobium douglasii</i>                          | <i>Arceuthobium douglasii</i>                           | Parasitic on Douglas Fir                                                         | 7000          | 9000          |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i>  | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodum</i> | Parasitic on ponderosa pine                                                      | 7000          | 9000          |
| MOMA3       | <i>Moehringia macrophylla</i>                          | <i>Arenaria macrophylla</i>                             | Slopes, canyons; ponderosa pine and mixed conifer forests and dry-moist          | 7000          | 8500          |
| ASLA5       | <i>Aster laevis</i>                                    | <i>Aster laevis</i>                                     | Moist canyons; mixed conifer forests                                             | 7000          | 8000          |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i> | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>   | Disturbed soil; pinyon-juniper woodland                                          | 7000          | 7500          |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>    | <i>Athyrium filix-femina</i> var. <i>californicum</i>   | Cool shaded canyons or along streams                                             | 7000          | 10000         |
| BRGR        | <i>Brickellia grandiflora</i>                          | <i>Brickellia grandiflora</i>                           | Canyon sides, slopes                                                             | 7000          | 8000          |
| CABU        | <i>Calypso bulbosa</i>                                 | <i>Calypso bulbosa</i>                                  | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests        | 7000          | 9000          |
| CACO6       | <i>Cardamine cordifolia</i>                            | <i>Cardamine cordifolia</i>                             | Wet or marshy ground, along streams                                              | 7000          | 10000         |
| CAIN11      | <i>Carex interior</i>                                  | <i>Carex interior</i>                                   | Marshy ground; ponderosa pine and mixed conifer forests                          | 7000          | 9500          |
| CASC11      | <i>Carex scoparia</i>                                  | <i>Carex scoparia</i>                                   | Moist ground, meadows                                                            | 7000          | 9000          |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>          | <i>Castilleja confusa</i>                               | Meadows; mixed conifer and spruce-fir forests                                    | 7000          | 10000         |
| CEFE        | <i>Ceanothus fendleri</i>                              | <i>Ceanothus fendleri</i>                               | Disturbed sites, especially by fire, roadsides; ponderosa pine forest            | 7000          | 9500          |
| CEBR3       | <i>Cerastium brachypodum</i>                           | <i>Cerastium brachypodum</i>                            | Moist woods meadows; ponderosa pine and mixed conifer forests                    | 7000          | 9000          |
| CHCA4       | <i>Chenopodium capitatum</i>                           | <i>Chenopodium capitatum</i>                            | Wooded slopes, moist places                                                      | 7000          | 8000          |
| CHFR3       | <i>Chenopodium fremontii</i>                           | <i>Chenopodium fremontii</i>                            | Disturbed soil; pinyon-juniper woodland, and ponderosa pine forest               | 7000          | 8000          |
| CHGR2       | <i>Chenopodium graveolens</i>                          | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>  | Disturbed soil                                                                   | 7000          | 8000          |
| CIUN        | <i>Cirsium undulatum</i>                               | <i>Cirsium undulatum</i>                                | Disturbed soils                                                                  | 7000          | 9500          |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i>      | <i>Clematis pseudoalpina</i>                            | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests        | 7000          | 9000          |
| CRER        | <i>Crataegus erythropoda</i>                           | <i>Crataegus erythropoda</i>                            | Along streams, canyon bottoms; mixed conifer forests                             | 7000          | 8000          |
| CYFR2       | <i>Cystopteris fragilis</i>                            | <i>Cystopteris fragilis</i>                             | Canyon bottoms, mountain slopes, pinyon-juniper woodland, pine and mixed conifer | 7000          | 8500          |
| DOPU        | <i>Dodecatheon pulchellum</i>                          | <i>Dodecatheon pulchellum</i>                           | Moist meadows, along streams                                                     | 7000          | 11000         |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>         | <i>Draba helleriana</i> var. <i>helleriana</i>          | Open or wooded rocky slopes                                                      | 7000          | 9000          |
| DRSP        | <i>Draba spectabilis</i>                               | <i>Draba spectabilis</i>                                | Meadows and woods                                                                | 7000          | 9000          |



## ELEVATION CON'T

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|-------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------|---------------|---------------|
| EQAR        | <i>Equisetum arvense</i>                           | <i>Equisetum arvense</i>                           | Roadsides, canyon bottoms; ponderosa pine and mixed conifer forests                          | 7000          | 8000          |
| ERHE7       | <i>Erythronium hendersonii</i>                     | <i>Eupatorium herbaceum</i>                        | Mountain slopes; ponderosa pine, mixed conifer, and spruce-fir forests                       | 7000          | 10000         |
| FE0V        | <i>Festuca ovina</i> L.                            | <i>Festuca ovina</i>                               | Mesas; ponderosa pine and mixed conifer forests                                              | 7000          | 7500          |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>  | <i>Fragaria ovalis</i>                             | Shaded places                                                                                | 7000          | 9000          |
| GAAP2       | <i>Galium aparine</i> L.                           | <i>Galium aparine</i>                              | Canyons, mountain slopes; mixed conifer forests                                              | 7000          | 9500          |
| GAFE        | <i>Galium fendleri</i>                             | <i>Galium fendleri</i>                             | Moist ground                                                                                 | 7000          | 9500          |
| GEAF        | <i>Gentiana affinis</i>                            | <i>Gentiana affinis</i>                            | Meadows, subalpine meadows                                                                   | 7000          | 10000         |
| GERI2       | <i>Geum rivale</i>                                 | <i>Geum rivale</i>                                 | Meadows, mixed conifer forests                                                               | 7000          | 9500          |
| GEAL3       | <i>Geum aleppicum</i>                              | <i>Geum strictum</i> var. <i>strictum</i>          | Mixed conifer forest                                                                         | 7000          | 9500          |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>         | <i>Geum triflorum</i> var. <i>ciliatum</i>         | Mountain slopes                                                                              | 7000          | 9000          |
| GLST        | <i>Glyceria striata</i>                            | <i>Glyceria striata</i>                            | Canyon bottoms                                                                               | 7000          | 7500          |
| HAPI2       | <i>Hackelia pinetorum</i>                          | <i>Hackelia pinetorum</i>                          | Shady, moist ground                                                                          | 7000          | 9000          |
| HEPA11      | <i>Heuchera parvifolia</i>                         | <i>Heuchera parvifolia</i>                         | Canyon sides, rocky mountain slopes; pinyon-juniper woodland, pine, mixed conifer, subalpine | 7000          | 10000         |
| HIOD        | <i>Hierochloa odorata</i>                          | <i>Hierochloa odorata</i>                          | Wet meadows                                                                                  | 7000          | 12000         |
| HYNE        | <i>Hymenopappus newberryi</i>                      | <i>Hymenopappus newberryi</i>                      | Mountain slopes                                                                              | 7000          | 9000          |
| HYFO4       | <i>Hypericum formosum</i>                          | <i>Hypericum formosum</i>                          | Moist canyons, damp meadows; mixed conifer forest                                            | 7000          | 9000          |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>   | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i> | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forest             | 7000          | 9500          |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>  | <i>Juncus longistylis</i> var. <i>longistylis</i>  | Moist meadows                                                                                | 7000          | 9500          |
| JUCO6       | <i>Juniperus communis</i>                          | <i>Juniperus communis</i>                          | Mountain slopes, canyon bottoms; ponderosa pine and mixed conifer forests                    | 7000          | 10000         |
| JUSC2       | <i>Juniperus scopulorum</i>                        | <i>Juniperus scopulorum</i>                        | Mountain slopes, canyon bottoms; ponderosa pine and mixed conifer forests                    | 7000          | 8500          |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i> | <i>Lathyrus arizonicus</i>                         | Canyon bottoms, mountain slopes; ponderosa, mixed conifer, spruce-fir forests                | 7000          | 10000         |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i> | <i>Lathyrus leucanthus</i>                         | Meadows                                                                                      | 7000          | 10500         |
| LIPU        | <i>Liatris punctata</i>                            | <i>Liatris punctata</i>                            | Disturbed soil; ponderosa pine and mixed conifer forests                                     | 7000          | 9000          |
| LIPO        | <i>Ligusticum porteri</i>                          | <i>Ligusticum porteri</i>                          | Moist canyon bottoms along streams; mixed conifer forests                                    | 7000          | 8000          |
| LIMU3       | <i>Lithospermum multiflorum</i>                    | <i>Lithospermum multiflorum</i>                    | Canyons and mountain slopes; ponderosa pine and mixed conifer forests                        | 7000          | 8000          |
| LUAL5       | <i>Lupinus X alpestris</i>                         | <i>Lupinus alpestris</i>                           | Moist mountain meadows                                                                       | 7000          | 10000         |
| LUAR3       | <i>Lupinus argenteus</i>                           | <i>Lupinus argenteus</i>                           | Meadows and open woods                                                                       | 7000          | 10000         |
| MEPO        | <i>Melica porteri</i>                              | <i>Melica porteri</i>                              | Moist canyon bottoms; ponderosa pine forest                                                  | 7000          | 7500          |

## ELEVATION CON'T

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------|---------------|
| MEBR        | <i>Mertensia brevistyla</i>                                     | <i>Mertensia brevistyla</i>                               | Canyons, moist places; ponderosa and mixed conifer forests                                        | 7000          | 8000          |
| OXFE        | <i>Oxypolis fendleri</i>                                        | <i>Oxypolis fendleri</i>                                  | Marshy ground near streams                                                                        | 7000          | 10000         |
| PERY        | <i>Penstemon rydbergii</i>                                      | <i>Penstemon rydbergii</i>                                | Moist meadows, open groves                                                                        | 7000          | 9000          |
| PECA10      | <i>Pericome caudata</i>                                         | <i>Pericome caudata</i>                                   | Disturbed soil                                                                                    | 7000          | 8500          |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                      | <i>Petalostemum purpureum</i>                             | Disturbed soil; ponderosa pine forest                                                             | 7000          | 7500          |
| PHNE3       | <i>Phacelia neomexicana</i>                                     | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       | Forested slopes                                                                                   | 7000          | 9000          |
| POSE        | <i>Poa secunda</i>                                              | <i>Poa nevadensis</i>                                     | Moist meadows                                                                                     | 7000          | 9000          |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i>       | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | Moist woods and meadows                                                                           | 7000          | 10000         |
| PODO4       | <i>Polygonum douglasii</i>                                      | <i>Polygonum douglasii</i>                                | Dry meadows                                                                                       | 7000          | 8500          |
| PORA3       | <i>Polygonum ramosissimum</i>                                   | <i>Polygonum ramosissimum</i>                             | Disturbed soil; mixed conifer forest                                                              | 7000          | 8500          |
| POTR5       | <i>Populus tremuloides</i>                                      | <i>Populus tremuloides</i> var. <i>aurea</i>              | Canyon bottoms, mountain slopes; mixed conifer forests or pure stands                             | 7000          | 10000         |
| POCO13      | <i>Potentilla concinna</i>                                      | <i>Potentilla concinna</i>                                | Dry mesas                                                                                         | 7000          | 11000         |
| POCR4       | <i>Potentilla crinita</i>                                       | <i>Potentilla crinita</i>                                 | Meadows                                                                                           | 7000          | 8000          |
| POPE8       | <i>Potentilla pennsylvanica</i>                                 | <i>Potentilla pennsylvanica</i>                           | Meadows                                                                                           | 7000          | 9500          |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>                 | <i>Potentilla thurberi</i> var. <i>thurberi</i>           | Along streams                                                                                     | 7000          | 9000          |
| PRVU        | <i>Prunella vulgaris</i>                                        | <i>Prunella vulgaris</i>                                  | Moist ground, canyon bottoms; ponderosa pine and mixed conifer forests                            | 7000          | 8000          |
| PSMO        | <i>Pseudocymopterus montanus</i>                                | <i>Pseudocymopterus montanus</i>                          | Canyons, mesas, mountain slopes; meadows; pinyon-juniper woodland, pine, mixed conifer, subalpine | 7000          | 10000         |
| PTAN2       | <i>Pterospora andromedea</i>                                    | <i>Pterospora andromedea</i>                              | Mesa tops, mountain sides; ponderosa pine forest                                                  | 7000          | 7500          |
| PYEL        | <i>Pyrola elliptica</i>                                         | <i>Pyrola elliptica</i>                                   | Moist woods                                                                                       | 7000          | 10000         |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>                     | <i>Ribes inebrians</i>                                    | Canyons, rocky slopes                                                                             | 7000          | 9000          |
| RIIN2       | <i>Ribes inerme</i>                                             | <i>Ribes inerme</i>                                       | Moist woods                                                                                       | 7000          | 9000          |
| RIPI        | <i>Ribes pinetorum</i>                                          | <i>Ribes pinetorum</i>                                    | Slopes; mixed conifer and spruce-fir forests                                                      | 7000          | 11500         |
| RUPA        | <i>Rubus parviflorus</i>                                        | <i>Rubus parviflorus</i>                                  | Canyon bottoms, slopes                                                                            | 7000          | 9500          |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>                  | <i>Rumex occidentalis</i>                                 | Moist, often marshy ground                                                                        | 7000          | 8500          |
| SABE2       | <i>Salix bebbiana</i>                                           | <i>Salix bebbiana</i>                                     | Along streams                                                                                     | 7000          | 8500          |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i>          | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i>  | On rocks and in rock crevices                                                                     | 7000          | 11000         |
| SARH2       | <i>Saxifraga rhomboidea</i>                                     | <i>Saxifraga rhomboidea</i>                               | Moist ground                                                                                      | 7000          | 11000         |
| SECO        | <i>Sedum cockerellii</i>                                        | <i>Sedum cockerellii</i>                                  | Rocky outcrops and crevices                                                                       | 7000          | 11000         |
| SECY        | <i>Senecio cymbalarioides</i>                                   | <i>Senecio cymbalarioides</i>                             | Meadows                                                                                           | 7000          | 12000         |
| SEPA5       | <i>Senecio pauperculus</i>                                      | <i>Senecio pauperculus</i>                                | Moist canyon bottoms                                                                              | 7000          | 7000          |
| SEWE2       | <i>Senecio werneriaefolius</i>                                  | <i>Senecio werneriaefolius</i>                            | Mountains and slopes                                                                              | 7000          | 13000         |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>        | Moist canyon bottoms; ponderosa pine and mixed conifer forests                                    | 7000          | 10000         |

### ELEVATION CON'T

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|-------------|----------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------|---------------|---------------|
| STLO2       | <i>Stellaria longipes</i>                                | <i>Stellaria longipes</i>                              | Moist ground                                                              | 7000          | 9500          |
| ACNED       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>            | <i>Stipa columbiana</i>                                | Meadows and open slopes                                                   | 7000          | 9000          |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                        | <i>Symphoricarpos rotundifolius</i>                    | Rocky slopes                                                              | 7000          | 10000         |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>          | <i>Thalictrum fendleri</i> var. <i>fendleri</i>        | Moist canyons, mountain slopes; ponderosa pine and mixed conifer forests  | 7000          | 9500          |
| THMO6       | <i>Thermopsis montana</i>                                | <i>Thermopsis montanum</i>                             | Meadows, forest clearings                                                 | 7000          | 10000         |
| THDI4       | <i>Thermopsis divaricarpa</i>                            | <i>Thermopsis pinetorum</i>                            | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests | 7000          | 9500          |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>             | <i>Thlaspi alpestre</i>                                | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests | 7000          | 10000         |
| TOFO        | <i>Townsendia formosa</i>                                | <i>Townsendia formosa</i>                              | Open, often moist mountain slopes                                         | 7000          | 9000          |
| TOIN        | <i>Townsendia incana</i>                                 | <i>Townsendia incana</i>                               | Canyon bottoms; ponderosa pine forests                                    | 7000          | 7500          |
| TRMO5       | <i>Trisetum montanum</i>                                 | <i>Trisetum montanum</i>                               | Meadows                                                                   | 7000          | 9500          |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>         | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>      | Damp woods                                                                | 7000          | 9500          |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                 | <i>Vicia americana</i> var. <i>linearis</i>            | Open slopes                                                               | 7000          | 10000         |
| BOMU        | <i>Botrychium multifidum</i>                             | <i>Botrychium multifidum</i> subsp. <i>coulteri</i>    | Moist canyon bottoms                                                      | 7150          | 7150          |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>           | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>   | Canyon slopes                                                             | 7150          | 7150          |
| CYPU10      | <i>Cypripedium pubescens</i>                             | <i>Cypripedium calceolus</i> var. <i>pubescens</i>     | Moist canyon bottoms                                                      | 7200          | 7200          |
| PSMA11      | <i>Pseudognaphalium macounii</i>                         | <i>Gnaphalium macounii</i>                             | Dry canyon slopes and mesas                                               | 7200          | 7300          |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i> | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i> | Mesas                                                                     | 7200          | 7250          |
| HICA4       | <i>Hieracium cameum</i>                                  | <i>Hieracium cameum</i>                                | Canyon slopes                                                             | 7200          | 7200          |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                      | <i>Krigia biflora</i>                                  | Moist canyon bottoms                                                      | 7200          | 7200          |
| APFL        | <i>Apocynum X floribundum</i>                            | <i>Apocynum medium</i> var. <i>A949floribundum</i>     | Dry canyon bottoms and slopes                                             | 7250          | 7250          |
| ASFO        | <i>Aster foliaceus</i>                                   | <i>Aster foliaceus</i>                                 | Open, grassy mesas                                                        | 7250          | 7560          |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>         | <i>Polygonum montanum</i>                              | Mesas                                                                     | 7300          | 7300          |
| CADO2       | <i>Carex douglasii</i>                                   | <i>Carex douglasii</i>                                 | Wet areas of canyons, mesas and mountain meadows                          | 7450          | 9000          |
| PYAS        | <i>Pyrola asarifolia</i>                                 | <i>Pyrola asarifolia</i>                               | Moist canyon bottoms                                                      | 7450          | 7450          |
| SCPU        | <i>Schizachne purpurascens</i>                           | <i>Schizachne purpurascens</i>                         | Moist canyon slopes, mountain slopes and meadows                          | 7450          | 8800          |
| ABCO        | <i>Abies concolor</i>                                    | <i>Abies concolor</i>                                  | Canyon sides, mountain slopes; often with spruce, mixed conifer forests   | 7500          | 9000          |
| ACRUA8      | <i>Actaea rubra</i> ssp. <i>arguta</i>                   | <i>Actaea arguta</i> var. <i>viridiflora</i>           | Canyon bottoms, mountain slopes; mixed conifer forests                    | 7500          | 10000         |
| AGGLG       | <i>Agoseris glauca</i> var. <i>glauca</i>                | <i>Agoseris glauca</i> var. <i>glauca</i>              | Meadows; mixed conifer forests and dry-moist                              | 7500          | 8000          |

## ELEVATION CON'T

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|-------------|----------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|---------------|
| AGST        | <i>Agrimonia striata</i>                           | <i>Agrimonia striata</i>                                  | Along streams, moist canyon bottoms                                                  | 7500          | 8000          |
| AMUTU       | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i> | <i>Amelanchier oreophila</i>                              | Canyon sides and bottoms; mixed conifer forest                                       | 7500          | 8000          |
| AQTR        | <i>Aquilegia tritemata</i>                         | <i>Aquilegia tritemata</i>                                | Moist canyon bottoms                                                                 | 7500          | 9500          |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                     | <i>Arctostaphylos uva-ursi</i>                            | Mountain slopes, under ponderosa pines                                               | 7500          | 10000         |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>      | <i>Arenaria fendleri</i> var. <i>brevifolia</i>           | Meadows, slopes                                                                      | 7500          | 10000         |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>     | <i>Aster hesperius</i>                                    | Moist canyons; mixed conifer forests                                                 | 7500          | 8000          |
| MARE11      | <i>Mahonia repens</i>                              | <i>Berberis repens</i>                                    | Canyon and mountain slopes; ponderosa pine and mixed conifer forests                 | 7500          | 8000          |
| BLTR        | <i>Blepharoneuron tricholepis</i>                  | <i>Blepharoneuron tricholepis</i>                         | Mesas, canyon bottoms, mountain slopes, meadows; ponderosa, mixed conifer, subalpine | 7500          | 10000         |
| BRJU        | <i>Brassica juncea</i>                             | <i>Brassica juncea</i>                                    | Moist canyon bottoms; mixed conifer forests                                          | 7500          | 8000          |
| BRCA6       | <i>Bromus catharticus</i>                          | <i>Bromus catharticus</i>                                 | Disturbed soil; ponderosa pine forest                                                | 7500          | 8000          |
| BRMA4       | <i>Bromus marginatus</i>                           | <i>Bromus marginatus</i>                                  | Canyon and mountain meadows                                                          | 7500          | 9500          |
| CAPA10      | <i>Campanula parryi</i>                            | <i>Campanula parryi</i>                                   | Meadows, canyons; mixed conifer forests and Moist                                    | 7500          | 8000          |
| CARO2       | <i>Campanula rotundifolia</i>                      | <i>Campanula rotundifolia</i>                             | Moist ground, mountain slopes, canyons; mixed conifer and spruce-fir forests         | 7500          | 9500          |
| CALI5       | <i>Castilleja lineata</i>                          | <i>Castilleja lineata</i>                                 | Moist meadows                                                                        | 7500          | 9500          |
| CAMI12      | <i>Castilleja miniata</i>                          | <i>Castilleja miniata</i>                                 | Canyon bottoms, mountain slopes, meadows; ponderosa pine, mixed conifer forests      | 7500          | 10000         |
| CHPR5       | <i>Chenopodium pratericola</i>                     | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i> | Disturbed soil; ponderosa and mixed conifer forests                                  | 7500          | 8000          |
| CIDO        | <i>Cicuta douglasii</i>                            | <i>Cicuta douglasii</i>                                   | Moist places, along streams                                                          | 7500          | 8500          |
| CIPA5       | <i>Cirsium pallidum</i>                            | <i>Cirsium pallidum</i>                                   | Moist sites, meadows mountain slopes, ponderosa pine and mixed conifer forests       | 7500          | 9000          |
| CIPA        | <i>Cirsium parryi</i>                              | <i>Cirsium parryi</i>                                     | Mountain meadows                                                                     | 7500          | 9500          |
| COMA4       | <i>Corallorrhiza maculata</i>                      | <i>Corallorrhiza maculata</i>                             | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests            | 7500          | 9500          |
| COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i>          | <i>Cornus stolonifera</i>                                 | Along streams, moist canyon bottoms; mixed conifer forests                           | 7500          | 8000          |
| DAPA2       | <i>Danthonia parryi</i>                            | <i>Danthonia parryi</i>                                   | Meadows                                                                              | 7500          | 9000          |
| DECE        | <i>Deschampsia cespitosa</i>                       | <i>Deschampsia caespitosa</i>                             | Meadows, along streams                                                               | 7500          | 11000         |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>   | <i>Erigeron speciosus</i> var. <i>macranthus</i>          | Moist canyons, meadows; ponderosa and mixed conifer forests, subalpine meadows       | 7500          | 9500          |
| ERSU2       | <i>Erigeron subtrinervis</i>                       | <i>Erigeron subtrinervis</i>                              | Canyons, mountain sides, meadows; ponderosa pine and mixed conifer forests           | 7500          | 10000         |
| FETH        | <i>Festuca thurberi</i>                            | <i>Festuca thurberi</i>                                   | Rocky slopes                                                                         | 7500          | 10500         |
| GABO2       | <i>Galium boreale</i>                              | <i>Galium boreale</i>                                     | Canyons, mountain slopes; mixed conifer and spruce-fir forests                       | 7500          | 10000         |
| GEAF        | <i>Gentiana affinis</i>                            | <i>Gentiana bigelovii</i>                                 | Subalpine meadows                                                                    | 7500          | 10000         |

## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                       | Martin and Hutchins (1980)                               | Habitat                                                                                          | Min Elev (ft) | Max Elev (ft) |
|-------------|--------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------|---------------|
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>        | <i>Geum macrophyllum</i> var. <i>perincisum</i>          | Meadows; subalpine meadows                                                                       | 7500          | 10000         |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i> | <i>Habenaria sparsiflora</i>                             | Near streams                                                                                     | 7500          | 8500          |
| HEMA80      | <i>Heracleum maximum</i>                               | <i>Heracleum lanatum</i>                                 | Along streams                                                                                    | 7500          | 9000          |
| HIFE        | <i>Hieracium fendleri</i>                              | <i>Hieracium fendleri</i>                                | Canyon bottoms; mixed conifer forests                                                            | 7500          | 10000         |
| HYFE        | <i>Hydrophyllum fendleri</i>                           | <i>Hydrophyllum fendleri</i>                             | Moist canyon bottoms                                                                             | 7500          | 8500          |
| HYNI        | <i>Hyoscyamus niger</i>                                | <i>Hyoscyamus niger</i>                                  | Disturbed soil                                                                                   | 7500          | 8500          |
| JUDR        | <i>Juncus drummondii</i>                               | <i>Juncus drummondii</i>                                 | Boggy moist canyon bottoms, meadows; ponderosa pine and mixed conifer forests                    | 7500          | 8500          |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i>       | <i>Lilium umbellatum</i>                                 | Moist canyon bottoms; mixed conifer forests                                                      | 7500          | 8500          |
| LOIN5       | <i>Lonicera involucrata</i>                            | <i>Lonicera involucrata</i>                              | Slopes, near streams; mixed conifer forest                                                       | 7500          | 10000         |
| MEFR2       | <i>Mertensia franciscana</i>                           | <i>Mertensia franciscana</i>                             | Moist ground, canyon bottoms; mixed conifer forests                                              | 7500          | 8500          |
| MOHY3       | <i>Monotropa hypopithys</i>                            | <i>Monotropa latisquama</i>                              | Mountain slopes; ponderosa pine and mixed conifer forests                                        | 7500          | 9000          |
| MUMO        | <i>Muhlenbergia montana</i>                            | <i>Muhlenbergia montana</i>                              | Mesa tops, canyon bottoms, mountain slopes, disturbed areas; pinyon-juniper, pine, mixed conifer | 7500          | 10000         |
| MUWR        | <i>Muhlenbergia wrightii</i>                           | <i>Muhlenbergia wrightii</i>                             | Canyon bottoms, mesa tops; ponderosa pine and mixed conifer forests                              | 7500          | 8000          |
| ORLU2       | <i>Orthocarpus luteus</i>                              | <i>Orthocarpus luteus</i>                                | Open meadows                                                                                     | 7500          | 9500          |
| OSDE        | <i>Osmorhiza depauperata</i>                           | <i>Osmorhiza obtusa</i>                                  | Canyon bottoms, mountain slopes; mixed conifer forests                                           | 7500          | 9500          |
| OXVI        | <i>Oxalis violacea</i>                                 | <i>Oxalis violacea</i>                                   | Canyon bottoms, mountain slopes, meadows; ponderosa pine and mixed conifer                       | 7500          | 9500          |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i> | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> | Slopes; mixed conifer forests                                                                    | 7500          | 8500          |
| PHPR3       | <i>Phleum pratense</i>                                 | <i>Phleum pratense</i>                                   | Canyon bottoms, mountain slopes, meadows; mixed conifer forests, subalpine meadows               | 7500          | 10000         |
| PHMO4       | <i>Physocarpus monogynus</i>                           | <i>Physocarpus mongynus</i>                              | Canyon bottoms and sides; mixed conifer forests                                                  | 7500          | 8000          |
| PLMA2       | <i>Plantago major</i>                                  | <i>Plantago major</i>                                    | Disturbed soil, canyon bottoms; juniper grassland, pinyon-juniper woodland                       | 7500          | 8000          |
| POPU9       | <i>Potentilla pulcherrima</i>                          | <i>Potentilla pulcherrima</i>                            | Canyon bottoms, mountain slopes; mixed conifer forests                                           | 7500          | 10000         |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>       | <i>Pteridium aquilinum</i> var. <i>pubescens</i>         | Shaded canyon bottoms, mountain slopes; mixed conifer forests                                    | 7500          | 8500          |
| PUTR2       | <i>Purshia tridentata</i>                              | <i>Purshia tridentata</i>                                | Old field                                                                                        | 7500          | 7500          |
| PYCH        | <i>Pyrola chlorantha</i>                               | <i>Pyrola chlorantha</i>                                 | Mountain slopes, canyon bottoms; mixed conifer forests                                           | 7500          | 9500          |
| PYMI        | <i>Pyrola minor</i>                                    | <i>Pyrola minor</i>                                      | Canyon bottoms, mountain slopes; mixed conifer forests                                           | 7500          | 8500          |

## ELEVATION CON'T

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|-------------|-----------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------|---------------|
| RACA4       | <i>Ranunculus cardiophyllus</i>                     | <i>Ranunculus cardiophyllus</i>                       | Canyon bottoms, meadows, moist slopes; pine and mixed conifer, subalpine                   | 7500          | 10000         |
| RIMO2       | <i>Ribes montigenum</i>                             | <i>Ribes montigenum</i>                               | Open slopes                                                                                | 7500          | 11000         |
| RUHI2       | <i>Rudbeckia hirta</i>                              | <i>Rudbeckia hirta</i>                                | Mountain slopes, canyon bottoms; mixed conifer forests                                     | 7500          | 9500          |
| RULA3       | <i>Rudbeckia laciniata</i>                          | <i>Rudbeckia laciniata</i>                            | Moist canyon bottoms; mixed conifer forests                                                | 7500          | 9500          |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>    | <i>Sambucus melanocarpa</i>                           | Moist mountain slopes, along streams                                                       | 7500          | 10000         |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougallii</i> | <i>Senecio eremophilus</i> var. <i>macdougallii</i>   | Canyon bottoms, mountain slopes, subalpine meadows                                         | 7500          | 10000         |
| SEPS2       | <i>Senecio pseudoaureus</i>                         | <i>Senecio pseudoaureus</i>                           | Moist meadows                                                                              | 7500          | 9500          |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>  | <i>Smilacina racemosa</i>                             | Moist canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forest             | 7500          | 10000         |
| MAST4       | <i>Maianthemum stellatum</i>                        | <i>Smilacina stellata</i>                             | Moist canyon bottoms, mountain slopes; mixed conifer forests                               | 7500          | 9500          |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>       | <i>Solidago wrightii</i> var. <i>wrightii</i>         | Open woods                                                                                 | 7500          | 9500          |
| STLO        | <i>Stellaria longifolia</i>                         | <i>Stellaria longifolia</i>                           | Canyons; mixed conifer forests and Moist                                                   | 7500          | 8000          |
| TAPA3       | <i>Talinum parviflorum</i>                          | <i>Talinum parviflorum</i>                            | Rocky mesa                                                                                 | 7500          | 7500          |
| TRPR2       | <i>Trifolium pratense</i>                           | <i>Trifolium pratense</i>                             | Mountain meadows, disturbed soil; mixed conifer forests and subalpine meadows              | 7500          | 10000         |
| VICA4       | <i>Viola canadensis</i>                             | <i>Viola canadensis</i>                               | Moist canyon bottoms, mountain slopes; mixed conifer forests                               | 7500          | 10000         |
| MACA2       | <i>Machaeranthera canescens</i>                     | <i>Machaeranthera canescens</i>                       | Mountain slopes, roadsides                                                                 | 7800          | 7900          |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>       | <i>Arenaria confusa</i>                               | Mountain meadows                                                                           | 7850          | 8900          |
| ACCO4       | <i>Aconitum columbianum</i>                         | <i>Aconitum columbianum</i>                           | Moist canyons, stream banks                                                                | 8000          | 8500          |
| ELTRS       | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>  | <i>Agropyron subsecundum</i>                          | Mountains and meadows                                                                      | 8000          | 10000         |
| AGSC5       | <i>Agrostis scabra</i>                              | <i>Agrostis scabra</i>                                | Canyon bottoms; mixed conifer forests                                                      | 8000          | 8500          |
| CHUM        | <i>Chimaphila umbellata</i>                         | <i>Chimaphila umbellata</i>                           | Mixed conifer forest                                                                       | 8000          | 11000         |
| COST        | <i>Corallorrhiza striata</i>                        | <i>Corallorrhiza striata</i>                          | Canyon sides; mixed conifer forests                                                        | 8000          | 9500          |
| CRAC3       | <i>Cryptogramma acrostichoides</i>                  | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> | Rocky slopes, cliffs, in mountains                                                         | 8000          | 12000         |
| DASP2       | <i>Danthonia spicata</i>                            | <i>Danthonia spicata</i>                              | Moist woods                                                                                | 8000          | 10000         |
| DRRE        | <i>Draba rectifruta</i>                             | <i>Draba rectifruta</i>                               | Open woods, open coniferous forests                                                        | 8000          | 9500          |
| EREX4       | <i>Erigeron eximius</i>                             | <i>Erigeron superbus</i>                              | Meadows                                                                                    | 8000          | 11000         |
| FESO        | <i>Festuca sororia</i>                              | <i>Festuca sororia</i>                                | Mountain slopes; mixed conifer forests                                                     | 8000          | 8500          |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>       | <i>Gentiana plebeia</i>                               | Meadows, canyon bottoms; subalpine meadows, mountain meadows                               | 8000          | 10000         |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>       | <i>Gentiana strictiflora</i>                          | Meadows, mixed conifer and spruce-fir forest                                               | 8000          | 10000         |
| GERI        | <i>Geranium richardsonii</i>                        | <i>Geranium richardsonii</i>                          | Canyon bottoms, forest openings, mountain slopes; ponderosa, mixed conifer, and spruce fir | 8000          | 10000         |
| GOOB2       | <i>Goodyera oblongifolia</i>                        | <i>Goodyera oblongifolia</i>                          | Mountain slopes, canyon bottoms; mixed conifer forests                                     | 8000          | 9500          |

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|-------------|-------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------|---------------|---------------|
| GORE2       | <i>Goodyera repens</i>                                      | <i>Goodyera repens</i>          | Edges of meadows; mixed conifer forests                                        | 8000          | 9500          |
| SOPA4       | <i>Solidago parryi</i>                                      | <i>Haplopappus parryi</i>       | Mountain slopes; mixed conifer and spruce-fir slopes                           | 8000          | 9500          |
| HODU        | <i>Holodiscus dumosus</i>                                   | <i>Holodiscus dumosus</i>       | Mountain slopes; open mixed conifer forests, subalpine meadows                 | 8000          | 10000         |
| IRMI        | <i>Iris missouriensis</i>                                   | <i>Iris missouriensis</i>       | Meadows, mountain slopes; subalpine meadows, mixed conifer forests             | 8000          | 10000         |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>            | <i>Lupinus rubricaulis</i>      | Open slopes                                                                    | 8000          | 9000          |
| LUPA4       | <i>Luzula parviflora</i>                                    | <i>Luzula parviflora</i>        | Moist woods and meadows                                                        | 8000          | 11000         |
| MAMA13      | <i>Malaxis macrostachya</i>                                 | <i>Malaxis soulei</i>           | in dense ponderosa pine stands, shaded areas                                   | 8000          | 9500          |
| MIGU        | <i>Mimulus guttatus</i>                                     | <i>Mimulus guttatus</i>         | Moist ground, along streams                                                    | 8000          | 8500          |
| ORAS        | <i>Oryzopsis asperifolia</i>                                | <i>Oryzopsis asperifolia</i>    | Canyon bottoms; mixed conifer forests                                          | 8000          | 10000         |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>        | Mountain slopes; mixed conifer forests                                         | 8000          | 9500          |
| PEOL        | <i>Penstemon oliganthus</i>                                 | <i>Penstemon oliganthus</i>     | Meadows, rocky slopes                                                          | 8000          | 9000          |
| PHAL2       | <i>Phleum alpinum</i>                                       | <i>Phleum alpinum</i>           | Meadows                                                                        | 8000          | 11500         |
| PIPU        | <i>Picea pungens</i>                                        | <i>Picea pungens</i>            | Canyon sides and mountain slopes; mixed conifer forests                        | 8000          | 10000         |
| PIFL2       | <i>Pinus flexilis</i>                                       | <i>Pinus flexilis</i>           | Mountain slopes, canyon sides; mixed conifer forests                           | 8000          | 10000         |
| PEFL15      | <i>Pentaphylloides floribunda</i>                           | <i>Potentilla fruticosa</i>     | Open meadows; spruce-fir forest, subalpine meadows                             | 8000          | 10000         |
| POHI6       | <i>Potentilla hippiana</i>                                  | <i>Potentilla hippiana</i>      | Moist canyon bottoms, mountain slopes; mixed conifer forests                   | 8000          | 8500          |
| ORSE        | <i>Orthilia secunda</i>                                     | <i>Ramischia secunda</i>        | Mountain slopes, meadow edges; mixed conifer forests                           | 8000          | 9500          |
| SICA3       | <i>Sidalcea candida</i>                                     | <i>Sidalcea candida</i>         | Moist canyons                                                                  | 8000          | 8500          |
| SISC7       | <i>Silene scouleri</i>                                      | <i>Silene scouleri</i>          | Canyons, meadows; mixed conifer forests and subalpine meadows                  | 8000          | 10000         |
| ACRO7       | <i>Achnatherum robustum</i>                                 | <i>Stipa robusta</i>            | Open mountain slopes; mixed conifer forests                                    | 8000          | 8500          |
| STAM2       | <i>Streptopus amplexifolius</i>                             | <i>Streptopus amplexifolius</i> | Moist canyons                                                                  | 8000          | 9500          |
| FRSP        | <i>Frasera speciosa</i>                                     | <i>Swertia radiata</i>          | Canyon bottoms, mountain slopes, meadows; mixed conifer and spruce-fir forests | 8000          | 10000         |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>    | Moist ground near streams                                                      | 8000          | 9500          |
| VAMY2       | <i>Vaccinium myrtillus</i>                                  | <i>Vaccinium myrtillus</i>      | Open and meadows                                                               | 8000          | 11000         |
| VECA2       | <i>Veratrum californicum</i>                                | <i>Veratrum californicum</i>    | Moist meadows                                                                  | 8000          | 10500         |
| VIPE2       | <i>Viola pedatifida</i>                                     | <i>Viola pedatifida</i>         | Meadows, openings in forests; mixed conifer forests                            | 8000          | 8500          |
| ZIEL2       | <i>Zigadenus elegans</i>                                    | <i>Zygadenus elegans</i>        | Moist canyon bottoms, meadows, mountain slopes; mixed conifer and subalpine    | 8000          | 10000         |
| HABE3       | <i>Hackelia besseyi</i>                                     | <i>Hackelia grisea</i>          | Canyon slopes                                                                  | 8100          | 8100          |
| SEAT        | <i>Senecio atratus</i>                                      | <i>Senecio atratus</i>          | Open mountain slopes                                                           | 8200          | 8200          |

## ELEVATION CON'T

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|-------------|--------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------|---------------|---------------|
| ABLAL       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>   | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>        | Mountain slopes; mixed conifer forests                           | 8500          | 10000         |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>  | <i>Arenaria fendleri</i> var. <i>fendleri</i>         | Meadows, mixed conifer forests and subalpine meadows             | 8500          | 10000         |
| ARFR3       | <i>Artemisia franserioides</i>                   | <i>Artemisia franserioides</i>                        | Mountain slopes; mixed conifer forests                           | 8500          | 9000          |
| ASOC        | <i>Aster occidentalis</i>                        | <i>Aster occidentalis</i>                             | Moist meadows                                                    | 8500          | 10000         |
| ASMO7       | <i>Astragalus mollissimus</i>                    | <i>Astragalus mollissimus</i>                         | Mountain slopes, canyons; mixed conifer forests                  | 8500          | 9000          |
| BRIN2       | <i>Bromus inermis</i>                            | <i>Bromus inermis</i>                                 | Disturbed soil; mixed conifer forest                             | 8500          | 9000          |
| CACA11      | <i>Carex canescens</i>                           | <i>Carex canescens</i>                                | Marshy ground                                                    | 8500          | 11000         |
| DAIN        | <i>Danthonia intermedia</i>                      | <i>Danthonia intermedia</i>                           | Mountain meadows; subalpine meadows                              | 8500          | 10000         |
| EPAN2       | <i>Epilobium angustifolium</i>                   | <i>Epilobium angustifolium</i>                        | Open meadows, disturbed slopes, roadsides; mixed conifer forests | 8500          | 9000          |
| ERPH        | <i>Erigeron philadelphicus</i>                   | <i>Erigeron philadelphicus</i>                        | Moist canyons, mountain sides; mixed conifer forests             | 8500          | 9500          |
| PIEN        | <i>Picea engelmannii</i>                         | <i>Picea engelmannii</i>                              | Mountain slopes; mixed conifer and spruce fir forests            | 8500          | 11000         |
| SOMU        | <i>Solidago multiradiata</i>                     | <i>Solidago multiradiata</i>                          | Mountain slopes, subalpine                                       | 8500          | 10000         |
| AGPE        | <i>Agrostis perennans</i>                        | <i>Agrostis perennans</i>                             | Canyon bottom meadows                                            | 8700          | 8700          |
| ALRO3       | <i>Alcea rosea</i>                               | <i>Althaea rosea</i>                                  | Canyon bottoms and roadside on mountain slopes                   | 8900          | 8900          |
| ALAE        | <i>Alopecurus aequalis</i>                       | <i>Alopecurus aequalis</i>                            | Boggy mountain meadows, pondedge                                 | 8950          | 9000          |
| POBI6       | <i>Polygonum bistortoides</i>                    | <i>Polygonum bistortoides</i>                         | Boggy mountain meadows                                           | 8950          | 9000          |
| AGAU2       | <i>Agoseris aurantiaca</i>                       | <i>Agoseris aurantiaca</i>                            | Meadows; subalpine meadows, spruce-fir forest and Dry-moist      | 9000          | 10000         |
| ELALL       | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>   | <i>Agropyron latiglume</i>                            | Meadows and open slopes                                          | 9000          | 9500          |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i> | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>   | Mountainsides                                                    | 9000          | 9500          |
| ASLE8       | <i>Astragalus lentiginosus</i>                   | <i>Astragalus lentiginosus</i>                        | Open forest; mixed conifer forests and subalpine meadows         | 9000          | 9500          |
| CAGU        | <i>Calochortus gunnisonii</i>                    | <i>Calochortus gunnisonii</i>                         | Meadows; mixed conifer forests, subalpine meadows                | 9000          | 10000         |
| CANU4       | <i>Carduus nutans</i>                            | <i>Carduus nutans</i>                                 | Mountain slopes, roadside                                        | 9000          | 9000          |
| CABE3       | <i>Carex bella</i>                               | <i>Carex bella</i>                                    | Open meadows or along streams                                    | 9000          | 10000         |
| CAMI7       | <i>Carex microptera</i>                          | <i>Carex festivella</i>                               | Open meadows, mountain slopes; mixed conifer forests             | 9000          | 9500          |
| CAFO3       | <i>Carex foenea</i>                              | <i>Carex foenea</i>                                   | High mountain meadows; subalpine meadows                         | 9000          | 10000         |
| CARH4       | <i>Castilleja rhexiifolia</i>                    | <i>Castilleja rhexiifolia</i>                         | Moist ground                                                     | 9000          | 11000         |
| DEOC        | <i>Delphinium X occidentale</i>                  | <i>Delphinium occidentale</i>                         | Near forest edge; mixed conifer forests                          | 9000          | 9500          |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>    | <i>Descurainia richardsonii</i> subsp. <i>procera</i> | Dry mountain meadows                                             | 9000          | 9000          |
| DRAU        | <i>Draba aurea</i>                               | <i>Draba aurea</i> var. <i>aurea</i>                  | Mountain slopes; mixed conifer forests, subalpine meadows        | 9000          | 10000         |



## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                             | Habitat                                                                             | Min Elev (ft) | Max Elev (ft) |
|-------------|------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------|
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinus</i>       | <i>Erigeron pumilus</i> subsp. <i>concinoides</i>      | Disturbed soil; pinyon-juniper woodland                                             | 9000          | 6500          |
| HAFL2       | <i>Hackelia floribunda</i>                           | <i>Hackelia floribunda</i>                             | Moist places, canyon bottoms; juniper grassland, pinyon-juniper, ponderosa, conifer | 9000          | 9500          |
| PYCRC       | <i>Pyrocoma crocea</i> var. <i>crocea</i>            | <i>Haplopappus croceus</i>                             | Mountain meadows                                                                    | 9000          | 9000          |
| HEQU2       | <i>Helianthella quinquenervis</i>                    | <i>Helianthella quinquenervis</i>                      | Mountain slopes, mixed conifer forests                                              | 9000          | 9500          |
| MUPE3       | <i>Muhlenbergia peruviana</i>                        | <i>Muhlenbergia pulcherrima</i>                        | Rocky ground                                                                        | 9000          | 9500          |
| PEWH        | <i>Penstemon whippleanus</i>                         | <i>Penstemon whippleanus</i>                           | Ski slopes, meadows, canyons; mixed conifer forests, subalpine meadows              | 9000          | 10000         |
| PYPI2       | <i>Pyrola picta</i>                                  | <i>Pyrola picta</i>                                    | Mountain slopes                                                                     | 9000          | 9000          |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>        | <i>Sambucus microbotrys</i>                            | Disturbed slopes, roadsides; mixed conifer forests                                  | 9000          | 9500          |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>         | Mountain slope openings; spruce-fir forests, subalpine meadows                      | 9000          | 9500          |
| SECR        | <i>Senecio crassulus</i>                             | <i>Senecio crassulus</i>                               | Mountain meadows, mountain slopes                                                   | 9000          | 13000         |
| SETR        | <i>Senecio triangularis</i>                          | <i>Senecio triangularis</i>                            | Moist ground                                                                        | 9000          | 10000         |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                     | <i>Stellaria jamesiana</i>                             | Forest openings, meadows; mixed conifer forests, subalpine meadows                  | 9000          | 10000         |
| TOAN        | <i>Townsendia annua</i>                              | <i>Townsendia annua</i>                                | Dry slopes                                                                          | 9000          | 11000         |
| TOEX        | <i>Townsendia eximia</i>                             | <i>Townsendia eximia</i>                               | Meadows and open slopes, partially shaded areas                                     | 9000          | 11000         |
| TRSP2       | <i>Trisetum spicatum</i>                             | <i>Trisetum spicatum</i>                               | Mountain meadows                                                                    | 9000          | 11500         |
| VEWO2       | <i>Veronica wormskjoldii</i>                         | <i>Veronica wormskjoldii</i>                           | Along streams                                                                       | 9000          | 11000         |
| SAPR2       | <i>Salvia pratensis</i> L.                           | <i>Salvia pratensis</i>                                | Mountain slopes, roadside                                                           | 9050          | 9050          |
| MURA4       | <i>Muhlenbergia ramulosa</i>                         | <i>Muhlenbergia wolfii</i>                             | Mountain meadows                                                                    | 9200          | 9200          |
| AQCO        | <i>Aquilegia coerulea</i>                            | <i>Aquilegia caerulea</i>                              | Meadows; subalpine meadows                                                          | 9500          | 10000         |
| BEPL        | <i>Besseyia plantaginea</i>                          | <i>Besseyia plantaginea</i>                            | Meadows; subalpine meadows                                                          | 9500          | 10000         |
| ELVI3       | <i>Elymus virginicus</i>                             | <i>Elymus virginicus</i>                               | Open mountain slopes; subalpine meadows                                             | 9500          | 10000         |
| EPOR2       | <i>Epilobium oregonense</i>                          | <i>Epilobium oregonense</i>                            | Open forest, wet meadows                                                            | 9500          | 10000         |
| EREL9       | <i>Erigeron elatior</i>                              | <i>Erigeron elatior</i>                                | Along streams, moist meadows                                                        | 9500          | 10000         |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i> | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i> | Moist mountain meadows                                                              | 9500          | 12000         |
| ERVE2       | <i>Erigeron vetensis</i>                             | <i>Erigeron vetensis</i>                               | Subalpine meadows                                                                   | 9500          | 10000         |
| HYHO        | <i>Hymenoxys hoopesii</i>                            | <i>Helenium hoopesii</i>                               | Mountain slopes; subalpine meadows                                                  | 9500          | 10000         |
| HEAN3       | <i>Helianthus annuus</i>                             | <i>Helianthus annuus</i>                               | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forests   | 9500          | 9000          |
| PHHE2       | <i>Phacelia heterophylla</i>                         | <i>Phacelia heterophylla</i>                           | Meadows, mountain slopes; subalpine meadows, spruce-fir forest                      | 9500          | 10000         |
| RIWO        | <i>Ribes wolfii</i>                                  | <i>Ribes wolfii</i>                                    | Mixed conifer and spruce-fir forests, slopes                                        | 9500          | 10000         |
| SASC        | <i>Salix scouleriana</i>                             | <i>Salix scouleriana</i>                               | On mountain slopes                                                                  | 9500          | 10000         |
| SIMO2       | <i>Sisyrinchium montanum</i>                         | <i>Sisyrinchium montanum</i>                           | Mountain meadows; subalpine meadows                                                 | 9500          | 10000         |
| TRHY        | <i>Trifolium hybridum</i>                            | <i>Trifolium hybridum</i>                              | Mountain meadows, disturbed soils; subalpine meadows                                | 9500          | 10000         |

## ELEVATION CON'T

| USDA Symbol | USDA NRCS PLANTS                              | Martin and Hutchins (1980)                    | Habitat                                       | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------|---------------|
| ERSI3       | <i>Erigeron simplex</i>                       | <i>Erigeron simplex</i>                       | Meadows; subalpine meadows, spruce-fir forest | 10000         | 11000         |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i> | <i>Poa pattersonii</i>                        | Mountain summits                              | 10000         | 11000         |
| PRRU        | <i>Primula rusbyi</i>                         | <i>Primula rusbyi</i>                         | Rocky ledges, bogs, rocky places              | 10000         | 11000         |
| TRDA2       | <i>Trifolium dasyphyllum</i>                  | <i>Trifolium dasyphyllum</i>                  | Meadows                                       | 10000         | 10000         |
| AGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>  | <i>Agoseris glauca</i> var. <i>parviflora</i> |                                               |               |               |
| BUDA        | <i>Buchloe dactyloides</i>                    | <i>Buchloe dactyloides</i>                    | Plains and prairies, lawns                    |               |               |

### Key for heading acronyms and abbreviations:

Family = species sorted by family.

USDA Symbol = acronym used in USDA NRCS PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Habitat = topographic position, soils, and communities where the plant was found.

Min Elev (ft) = lowest elevation that plant was collected by Foxx and/or Tierney or was reported in Martin and Hutchins (1980).

Max Elev (ft) = highest elevation that plant was collected by Foxx and/or Tierney or was reported in Martin and Hutchins (1980).

## OCCURRENCE



James Beardtongue

## OCCURRENCE

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Occurrence                                           | Blooms                 | Habit           |
|--------------|------------------------------------------------------|-------------------------------------------------|------------------------------------------------------|------------------------|-----------------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | Common                                               | Spring                 | Tree            |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | Not common                                           | Spring                 | Tree            |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    | Locally common                                       | Spring                 | Small tree      |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        | Locally common                                       | Spring                 | Tree            |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> | Ubiquitous                                           | Midsummer to fall      | Perennial forb  |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     | Not common                                           | Mid- to late summer    | Perennial forb  |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    | Locally common                                       | Spring to early summer | Perennial forb  |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      | Occasional                                           |                        |                 |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   | See Robertson (1968)                                 | Late summer to fall    | Perennial forb  |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       | See Pilz et al. (1979)                               | Early to late summer   | Perennial forb  |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      | Not common                                           | Late summer            | Perennial forb  |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       | Not common                                           | Late summer            | Perennial forb  |
| AGLL         | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |                                                      |                        |                 |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    | See Robertson (1968)                                 | Mid- to late summer    | Perennial forb  |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        | Locally common                                       | Late summer            | Perennial forb  |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   | Occasional                                           |                        |                 |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     | Common                                               | Late summer            | Perennial grass |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |                                                      | Late summer            | Perennial grass |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   | Osborne (1966); Robertson (1968); Pilz et al. (1979) | Early to late summer   | Perennial grass |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         | Occasional                                           |                        |                 |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        | Common                                               | Early summer           | Perennial grass |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    | See Pilz et al. (1979)                               | Early to late summer   | Perennial grass |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   | Abundant in seeded areas                             | Early summer           | Perennial grass |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            | Common                                               | Early summer           | Perennial forb  |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         | Occasional                                           |                        |                 |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      | See Pilz et al. (1979)                               | Early to late summer   | Perennial forb  |
| AGPE         | <i>Agrostis perennans</i>                            | <i>Agrostis perennans</i>                       | Occasional                                           |                        |                 |
| AGSC5        | <i>Agrostis scabra</i>                               | <i>Agrostis scabra</i>                          | Not common                                           | Early to late summer   | Perennial forb  |
| POVI9        | <i>Polypogon viridis</i>                             | <i>Agrostis semiverticillata</i>                | Locally Abundant                                     |                        |                 |
| AGST2        | <i>Agrostis stolonifera</i>                          | <i>Agrostis stolonifera</i>                     | Locally abundant                                     |                        |                 |
| AIAL         | <i>Ailanthus altissima</i>                           | <i>Ailanthus altissima</i>                      | Locally common                                       | Early to midsummer     | Tree            |
| ALCEO        | <i>Allium cernuum</i> var. <i>obtusum</i>            | <i>Allium cernuum</i> var. <i>obtusum</i>       | Ubiquitous                                           | Mid- to late summer    | Perennial forb  |
| ALGE         | <i>Allium geyeri</i>                                 | <i>Allium geyeri</i>                            | See Pilz et al. (1979)                               | Early summer to fall   | Perennial forb  |
| ALMA4        | <i>Allium macropetalum</i>                           | <i>Allium macropetalum</i>                      | Locally Abundant                                     |                        |                 |

\* A key for heading acronyms and abbreviations is on the last page of this table.

## OCCURRENCE CON'T

| USDA Symbol         | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                        | Occurrence                                        | Blooms                 | Habit           |
|---------------------|----------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|------------------------|-----------------|
| ALTE                | <i>Allium textile</i>                                                                  | <i>Allium textile</i>                             | Not common                                        | Early spring           | Perennial forb  |
| ALOB2               | <i>Alnus oblongifolia</i>                                                              | <i>Alnus oblongifolia</i>                         | See Osborne (1966)                                | Spring                 | Tree            |
| ALINT               | <i>Alnus incana</i> ssp. <i>tenuifolia</i>                                             | <i>Alnus tenuifolia</i>                           | Locally common                                    | Spring                 | Tree            |
| ALAE                | <i>Alopecurus aequalis</i>                                                             | <i>Alopecurus aequalis</i>                        | Occasional                                        |                        |                 |
| ALRO3               | <i>Alcea rosea</i>                                                                     | <i>Althaea rosea</i>                              | Occasional                                        |                        |                 |
| AMAL                | <i>Amaranthus albus</i>                                                                | <i>Amaranthus albus</i>                           | Occasional                                        |                        |                 |
| AMAL; AMBL          | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>                      | Locally common                                    | Late summer to fall    | Annual forb     |
| AMHY                | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                        | See Pilz et al. (1979)                            | Late summer to fall    | Annual forb     |
| AMHY2               | <i>Amaranthus hypochondriacus</i> L.                                                   | <i>Amaranthus leucocarpus</i>                     | Occasional                                        |                        |                 |
| AMPA                | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                         | See Housley (1974)                                | Fall                   | Annual forb     |
| AMPO2               | <i>Amaranthus powellii</i> S. Wats.                                                    | <i>Amaranthus powellii</i>                        | Locally abundant                                  |                        |                 |
| AMRE                | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>                     | Locally common                                    | Late summer to fall    | Annual forb     |
| AMAR; AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                         | Not common                                        | Late summer to fall    | Annual forb     |
| AMAR2               | <i>Ambrosia artemisiifolia</i>                                                         | <i>Ambrosia artemisiifolia</i>                    | Locally common                                    | Late summer            | Annual forb     |
| AMPS                | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>                      | See Robertson (1968)                              | Late summer to fall    | Perennial forb  |
| AMUTU               | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier bakeri</i>                         | Occasional                                        |                        |                 |
| AMUTU               | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier oreophila</i>                      | Not common                                        | Early summer           | Shrub           |
| AMPU5               | <i>Amelanchier pumila</i>                                                              | <i>Amelanchier polycarpa</i>                      | See Robertson (1968)                              | Spring to early summer | Shrub           |
| AMUT                | <i>Amelanchier utahensis</i>                                                           | <i>Amelanchier utahensis</i>                      | Not common                                        | Spring                 | Shrub           |
| AMCA6               | <i>Amorpha canescens</i>                                                               | <i>Amorpha canescens</i>                          | See Herbarium, Bandelier National Monument        | Early summer to fall   | Shrub           |
| AMFR                | <i>Amorpha fruticosa</i>                                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i> | Not common                                        | Spring to midsummer    | Shrub           |
| AMNA                | <i>Amorpha nana</i>                                                                    | <i>Amorpha nana</i>                               | Locally common                                    | Early summer           | Shrub           |
| ANAR                | <i>Anagallis arvensis</i>                                                              | <i>Anagallis arvensis</i>                         | See Robertson (1968)                              | Spring to fall         | Annual forb     |
| ANMA                | <i>Anaphalis margaritacea</i>                                                          | <i>Anaphalis margaritacea</i>                     | Not common                                        | Late summer            | Perennial forb  |
| BOBAB               | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>                                  | <i>Andropogon barbinodis</i>                      | Not common                                        | Early to late summer   | Perennial forb  |
| ANGE                | <i>Andropogon gerardii</i>                                                             | <i>Andropogon gerardii</i>                        | Locally common                                    | Early to late summer   | Perennial grass |
| ANHA                | <i>Andropogon hallii</i>                                                               | <i>Andropogon hallii</i>                          | Occasional                                        |                        |                 |
| BOSA                | <i>Bothriochloa saccharoides</i>                                                       | <i>Andropogon saccharoides</i>                    | See Barnes (1983)                                 | Early to late summer   | Perennial grass |
| SCSCS2              | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>                                   | <i>Andropogon scoparius</i>                       | Common                                            | Early to late summer   | Perennial grass |
| BOSP3               | <i>Bothriochloa springfieldii</i>                                                      | <i>Andropogon springfieldii</i>                   | See Herbarium, Bandelier National Monument (1983) | Early to late summer   | Perennial grass |
| BOWR2               | <i>Bothriochloa wrightii</i>                                                           | <i>Andropogon wrightii</i>                        | See Herbarium, Bandelier National Monument (1983) | Early to late summer   | Perennial grass |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Occurrence                                                     | Blooms                    | Habit                              |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|---------------------------|------------------------------------|
| ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>       | <i>Androsace septentrionalis</i> var. <i>subulifera</i>       | Common                                                         | Spring to early summer    | Annual or Perennial forb           |
| ANCY        | <i>Anemone cylindrica</i>                                     | <i>Anemone cylindrica</i>                                     | See Robertson (1968); Herbarium, Bandelier National Monument   | Spring to midsummer       | Perennial forb                     |
| ANPI2       | <i>Angelica pinnata</i>                                       | <i>Angelica pinnata</i>                                       | Locally common                                                 | Mid- to late summer       | Perennial forb                     |
| ANCR2       | <i>Anoda cristata</i>                                         | <i>Anoda cristata</i> var. <i>digitata</i>                    | Locally common                                                 | Late summer to fall       | Annual forb                        |
| ANMA5       | <i>Antennaria marginata</i>                                   | <i>Antennaria marginata</i>                                   | See Pilz et al. (1979); Robertson (1968)                       | Spring to early to summer | Perennial forb                     |
| ANPA4       | <i>Antennaria parvifolia</i>                                  | <i>Antennaria parvifolia</i>                                  | Ubiquitous                                                     | Spring                    | Perennial forb                     |
| ANRO2       | <i>Antennaria rosea</i>                                       | <i>Antennaria rosea</i>                                       | Occasional                                                     |                           |                                    |
| ANRO3       | <i>Antennaria rosulata</i>                                    | <i>Antennaria rosulata</i>                                    | See Pilz et al. (1979)                                         | Spring to early summer    | Perennial forb                     |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               | Occasional                                                     |                           |                                    |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> | Locally common                                                 | Early to late summer      | Perennial forb                     |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            | Locally common                                                 | Early to late summer      | Perennial forb                     |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            | Occasional                                                     |                           |                                    |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     | Not common to rare                                             | Midsummer                 | Perennial forb                     |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   | See Osborne (1966)                                             | Spring to fall            | Perennial forb                     |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   | See Robertson (1968); Foxx and Tierney (1985)                  | Early summer to fall      | Perennial forb                     |
| AQTR        | <i>Aquilegia tritemata</i>                                    | <i>Aquilegia tritemata</i>                                    | Not common                                                     | Spring to early summer    | Perennial forb                     |
| ARDI2       | <i>Arabis X divaricarpa</i>                                   | <i>Arabis divaricarpa</i>                                     | Occasional                                                     |                           |                                    |
| ARDR        | <i>Arabis drummondii</i>                                      | <i>Arabis drummondii</i>                                      | See Herbarium, Bandelier National Monument                     | Spring to fall            | Perennial forb                     |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | Common                                                         | Spring                    | Perennial forb                     |
| ARGL        | <i>Arabis glabra</i>                                          | <i>Arabis glabra</i>                                          | See Herbarium, Bandelier National Monument                     | Spring to midsummer       | Biennial, sometimes Perennial forb |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  | See Herbarium, Bandelier National Monument                     | Spring to midsummer       | Perennial forb                     |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | Not common                                                     | Spring to midsummer       | Perennial forb                     |
| ARPE2       | <i>Arabis perennans</i>                                       | <i>Arabis perennans</i>                                       | See Pilz et al. (1979)                                         | Spring to fall            | Perennial or Annual forb           |
| ARRA        | <i>Aralia racemosa</i>                                        | <i>Aralia racemosa</i>                                        | Rare, Robertson (1968); Herbarium, Bandelier National Monument | Late summer to fall       | Perennial forb                     |
| ARDI3       | <i>Arceuthobium divaricatum</i>                               | <i>Arceuthobium divaricatum</i>                               | See Pilz et al. (1979)                                         | Late summer to fall       | Parasite                           |
| ARDO        | <i>Arceuthobium douglasii</i>                                 | <i>Arceuthobium douglasii</i>                                 | See Pilz et al. (1979)                                         | Spring                    | Parasitic                          |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                              | Occurrence                                                   | Blooms                 | Hablt           |
|-------------|-------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|------------------------|-----------------|
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i> | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodum</i> | Locally common                                               | Spring to early summer | Parasite        |
| ARPU5       | <i>Arctostaphylos pungens</i>                         | <i>Arctostaphylos pungens</i>                           | See Robertson (1968)                                         | Spring                 | Shrub           |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                        | <i>Arctostaphylos uva-ursi</i>                          | Common                                                       | Spring to early summer | Shrub           |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>         | <i>Arenaria confusa</i>                                 | Locally abundant                                             |                        |                 |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>         | <i>Arenaria fendleri</i> var. <i>brevifolia</i>         | Not common                                                   | Late summer            | Perennial forb  |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>       | <i>Arenaria fendleri</i> var. <i>fendleri</i>           | Not common                                                   | Late summer            | Perennial forb  |
| MOMA3       | <i>Moehringia macrophylla</i>                         | <i>Arenaria macrophylla</i>                             | Not common                                                   | Early to late summer   | Perennial forb  |
| ARAD        | <i>Aristida adscensionis</i>                          | <i>Aristida adscensionis</i>                            | Common                                                       | Spring                 | Annual grass    |
| ARAR6       | <i>Aristida arizonica</i>                             | <i>Aristida arizonica</i>                               | Pilz et al. (1979)                                           | Mid- to late summer    | Perennial grass |
| ARHA3       | <i>Aristida havardii</i>                              | <i>Aristida barbata</i>                                 | Not common                                                   | Mid- to late summer    | Perennial grass |
| ARDI5       | <i>Aristida divaricata</i>                            | <i>Aristida divaricata</i>                              | Locally common                                               | Spring to early summer | Perennial grass |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>      | <i>Aristida fendleriana</i>                             | Locally common                                               | Early to late summer   | Perennial grass |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>        | <i>Aristida longiseta</i>                               | Locally common                                               | Spring to early summer | Perennial grass |
| ARPU9       | <i>Aristida purpurea</i>                              | <i>Aristida purpurea</i>                                | Not common                                                   | Spring to early summer | Perennial grass |
| ARBI3       | <i>Artemisia bigelovii</i>                            | <i>Artemisia bigelovii</i>                              | Locally common                                               | Late summer to fall    | Shrub           |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>      | <i>Artemisia campestris</i> subsp. <i>pacifica</i>      | See Robertson (1968)                                         | Late summer to fall    | Perennial forb  |
| ARCA13      | <i>Artemisia cana</i>                                 | <i>Artemisia cana</i>                                   | See Foxx and Tierney (1985)                                  | Mid- to late summer    | Shrub           |
| ARCA14      | <i>Artemisia carruthii</i>                            | <i>Artemisia carruthii</i>                              | Locally common                                               | Late summer to fall    | Perennial forb  |
| ARDR4       | <i>Artemisia dracunculus</i>                          | <i>Artemisia dracunculus</i>                            | Ubiquitous                                                   | Late summer            | Perennial forb  |
| ARFI2       | <i>Artemisia filifolia</i>                            | <i>Artemisia filifolia</i>                              | Common                                                       | Late summer to fall    | Shrub           |
| ARFR3       | <i>Artemisia franserioides</i>                        | <i>Artemisia franserioides</i>                          | Abundant                                                     | Late summer to fall    | Perennial forb  |
| ARFR4       | <i>Artemisia frigida</i>                              | <i>Artemisia frigida</i>                                | Locally common                                               | Late summer to fall    | Undershrub      |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>       | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>       | Occasional                                                   |                        |                 |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i>  | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i>  | Abundant                                                     | Late summer to fall    | Perennial forb  |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>     | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>     | Locally abundant                                             |                        |                 |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>      | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>     | Locally common                                               | Midsummer to fall      | Perennial forb  |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>     | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>      | Occasional                                                   |                        |                 |
| ARTR2       | <i>Artemisia tridentata</i>                           | <i>Artemisia tridentata</i>                             | Locally common                                               | Fall                   | Shrub           |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>        | <i>Asclepias asperula</i> subsp. <i>asperula</i>        | Scattered                                                    | Early to midsummer     | Perennial forb  |
| ASEN        | <i>Asclepias engelmanniana</i>                        | <i>Asclepias engelmanniana</i>                          | Occasional                                                   |                        |                 |
| ASIN14      | <i>Asclepias involucrata</i>                          | <i>Asclepias involucrata</i>                            | See Herbarium, Bandelier National Monument                   | Spring to early summer | Perennial forb  |
| ASMA        | <i>Asclepias macrotis</i>                             | <i>Asclepias macrotis</i>                               | See Robertson (1968); Herbarium, Bandelier National Monument | Mid- to late summer    | Perennial forb  |
| ASSP        | <i>Asclepias speciosa</i>                             | <i>Asclepias speciosa</i>                               | Not common                                                   | Early to late summer   | Perennial forb  |
| ASSU2       | <i>Asclepias subverticillata</i>                      | <i>Asclepias subverticillata</i>                        | Locally common                                               | Early to late summer   | Perennial forb  |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>        | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>      | Rare                                                         | Midsummer              | Perennial forb  |

# **OCCURRENCE CON'T**

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                                | Occurrence                                 | Blooms                    | Habit                      |
|-------------|-----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------|---------------------------|----------------------------|
| ASVI        | <i>Asclepias viridiflora</i>                              | <i>Asclepias viridiflora</i>                              | Occasional                                 |                           |                            |
| ASOF        | <i>Asparagus officinalis</i>                              | <i>Asparagus officinalis</i>                              | Not common                                 | Early to midsummer        | Perennial forb             |
| ASTR2       | <i>Asplenium trichomanes</i>                              | <i>Asplenium trichomanes</i>                              | See Osborne (1966)                         | Not applicable            | Perennial forb             |
| ASER3       | <i>Aster ericoides</i>                                    | <i>Aster ericoides</i>                                    | Not common                                 | Late summer               | Perennial forb             |
| ASFE        | <i>Aster fendleri</i>                                     | <i>Aster fendleri</i>                                     | See Herbarium, Bandelier National Monument | Late summer to fall       | Perennial forb             |
| ASFO        | <i>Aster foliaceus</i>                                    | <i>Aster foliaceus</i>                                    | Occasional                                 |                           |                            |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>              | <i>Aster glaucodes</i> var. <i>glaucodes</i>              | See Foxx and Tierney (1985)                | Midsummer to fall         | Perennial forb             |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>            | <i>Aster hesperius</i>                                    | Locally common                             | Late summer               | Perennial forb             |
| ASLA5       | <i>Aster laevis</i>                                       | <i>Aster laevis</i>                                       | Locally common                             | Late summer to fall       | Perennial forb             |
| ASNO        | <i>Aster novae-angliae</i>                                | <i>Aster novae-angliae</i>                                | Locally common                             | Late summer to fall       | Perennial forb             |
| ASOC        | <i>Aster occidentalis</i>                                 | <i>Aster occidentalis</i>                                 | See Foxx and Tierney (1985)                | Mid- to late summer       | Perennial forb             |
| ALPA14      | <i>Almutaster pauciflorus</i>                             | <i>Aster pauciflorus</i>                                  | Locally common                             | Fall                      | Perennial forb             |
| ASPR2       | <i>Aster praealtus</i>                                    | <i>Aster praealtus</i>                                    | See Herbarium, Bandelier National Monument | Late summer to fall       | Perennial forb             |
| ASAG2       | <i>Astragalus agrestis</i>                                | <i>Astragalus agrestis</i>                                | See Pilz et al. (1979)                     | Early summer to fall      | Perennial forb             |
| ASAM5       | <i>Astragalus amphioxys</i>                               | <i>Astragalus amphioxys</i>                               | See Foxx and Tierney (1985)                | Spring to early summer    | Perennial forb             |
| ASBI2       | <i>Astragalus bisulcatus</i>                              | <i>Astragalus bisulcatus</i>                              | Occasional                                 |                           |                            |
| ASCR2       | <i>Astragalus crassicaupus</i>                            | <i>Astragalus crassicaupus</i>                            | See Foxx and Tierney (1985)                | Spring to midsummer       | Perennial forb             |
| ASEM2       | <i>Astragalus emoryanus</i>                               | <i>Astragalus emoryanus</i>                               | See Foxx and Tierney (1985)                | Spring to early summer    | Annual forb                |
| ASFL2       | <i>Astragalus flexuosus</i>                               | <i>Astragalus flexuosus</i>                               | Frequent                                   |                           |                            |
| ASGR3       | <i>Astragalus gracilis</i>                                | <i>Astragalus gracilis</i>                                | Not common                                 | Spring to early summer    | Perennial forb             |
| ASHU2       | <i>Astragalus humistratus</i>                             | <i>Astragalus humistratus</i>                             | See Herbarium, Bandelier National Monument | Early summer to fall      | Perennial forb             |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>    | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     | Rare                                       | Late summer               | Perennial forb             |
| ASLE8       | <i>Astragalus lentiginosus</i>                            | <i>Astragalus lentiginosus</i>                            | Not common                                 | Late summer to early fall | Perennial or biennial forb |
| ASLO3       | <i>Astragalus lonchocarpus</i>                            | <i>Astragalus lonchocarpus</i>                            | Occasional                                 |                           |                            |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | Common                                     | Spring to early summer    | Perennial forb             |
| ASMO7       | <i>Astragalus mollissimus</i>                             | <i>Astragalus mollissimus</i>                             | Not common                                 | Spring                    | Perennial forb             |
| ASPR5       | <i>Astragalus praelongus</i>                              | <i>Astragalus praelongus</i>                              | Locally common                             | Spring                    | Perennial forb             |
| ASSH3       | <i>Astragalus shortianus</i>                              | <i>Astragalus shortianus</i>                              | See Foxx and Tierney (1985)                | Spring                    | Perennial forb             |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>       | <i>Athyrium filix-femina</i> var. <i>californicum</i>     | Locally common                             | Not applicable            | Perennial forb             |
| ATCA2       | <i>Atriplex canescens</i>                                 | <i>Atriplex canescens</i>                                 | Locally common                             | Midsummer                 | Shrub                      |
| ATPA4       | <i>Atriplex patula</i>                                    | <i>Atriplex patula</i>                                    | See Housley (1974)                         | Midsummer                 | Annual                     |
| BABI3       | <i>Bahia bitemata</i>                                     | <i>Bahia bitemata</i>                                     | Rare                                       | Early to late summer      | Annual or biennial forb    |
| BADI        | <i>Bahia dissecta</i>                                     | <i>Bahia dissecta</i>                                     | Locally common                             | Late summer to fall       | Biennial forb              |



# **OCCURRENCE CON'T**

| <b>USDA Symbol</b> | <b>USDA NRCS PLANTS</b>                                     | <b>Martin and Hutchins (1980)</b>                   | <b>Occurrence</b>           | <b>Blooms</b>        | <b>Habit</b>               |
|--------------------|-------------------------------------------------------------|-----------------------------------------------------|-----------------------------|----------------------|----------------------------|
| SCMU6              | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                            | Rare                        | Late summer to fall  | Annual forb                |
| PLINO              | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                           | See Robertson (1968)        | Early to midsummer   | Perennial forb             |
| BAMU               | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                         | Not common                  | Early to late summer | Biennial or Perennial forb |
| BAHY               | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                          | See Pilz et al. (1979)      | Late summer to fall  | Annual forb                |
| BESY               | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                        | Not common                  | Early to late summer | Annual grass               |
| BEFE               | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                            | Locally common              | Early summer         | Shrub                      |
| MARE11             | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                              | Common                      | Spring               | Shrub                      |
| BELY               | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                           | Not common                  | Spring               | Perennial forb             |
| BEER               | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                | Locally common              | Early summer to fall | Perennial forb             |
| BEPL               | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                         | Common                      | Early summer         | Perennial forb             |
| BEOC2              | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                          | Locally common              | Early spring         | Tree                       |
| BIBI               | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                             | Rare                        | Late summer to fall  | Annual forb                |
| BIBI7              | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>       | Not common                  | Late summer          | Annual forb                |
| BICE               | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                | Not common                  | Late summer to fall  | Annual forb                |
| BITR               | <i>Bidens tripartita</i>                                    | <i>Bidens cosmosa</i>                               | Occasional                  |                      |                            |
| BIFR               | <i>Bidens frondosa</i>                                      | <i>Bidens frondosa</i>                              | Occasional                  |                      |                            |
| BLTR               | <i>Blepharoneuron tricholepis</i>                           | <i>Blepharoneuron tricholepis</i>                   | Ubiquitous                  | Spring               | Perennial grass            |
| BOCO2              | <i>Boerhavia coulteri</i>                                   | <i>Boerhaavia coulteri</i>                          | See Foxx and Tierney (1985) | Late summer to fall  | Annual forb                |
| BOMU               | <i>Botrychium multifidum</i>                                | <i>Botrychium multifidum</i> subsp. <i>coulteri</i> | Sensitive                   |                      |                            |
| BOAR               | <i>Bouteloua aristidoides</i>                               | <i>Bouteloua aristidoides</i>                       | See Foxx and Tierney (1985) | Early summer to fall | Annual grass               |
| BOBA2              | <i>Bouteloua barbata</i>                                    | <i>Bouteloua barbata</i>                            | Occasional                  |                      |                            |
| BOCU               | <i>Bouteloua curtipendula</i>                               | <i>Bouteloua curtipendula</i>                       | Common                      | Spring to fall       | Perennial grass            |
| BOER4              | <i>Bouteloua eriopoda</i>                                   | <i>Bouteloua eriopoda</i>                           | Common                      | Midsummer to fall    | Perennial grass            |
| BOGR2              | <i>Bouteloua gracilis</i>                                   | <i>Bouteloua gracilis</i>                           | Ubiquitous                  | Late summer to fall  | Perennial grass            |
| BOHI2              | <i>Bouteloua hirsuta</i>                                    | <i>Bouteloua hirsuta</i>                            | Common                      | Late summer          | Perennial grass            |
| BOSI2              | <i>Bouteloua simplex</i>                                    | <i>Bouteloua simplex</i>                            | Rare                        | summer               | Annual grass               |
| BRJU               | <i>Brassica juncea</i>                                      | <i>Brassica juncea</i>                              | Not common                  | Mid- to late summer  | Annual forb                |
| BRNI               | <i>Brassica nigra</i>                                       | <i>Brassica nigra</i>                               | See Housley (1974)          | Spring to midsummer  | Annual forb                |
| BRBE               | <i>Brickellia betonicifolia</i>                             | <i>Brickellia betonicaefolia</i>                    | See Robertson (1968)        | Early summer to fall | Perennial forb             |
| BRBR2              | <i>Brickellia brachyphylla</i>                              | <i>Brickellia brachyphylla</i>                      | See Pilz et al. (1979)      | Late summer to fall  | Perennial forb             |
| BRCA3              | <i>Brickellia californica</i>                               | <i>Brickellia californica</i>                       | Not common                  | Late summer          | Perennial forb             |
| BRFE               | <i>Brickellia fendleri</i>                                  | <i>Brickellia fendleri</i>                          | Locally abundant            |                      |                            |
| BRGR               | <i>Brickellia grandiflora</i>                               | <i>Brickellia grandiflora</i>                       | Not common                  | Mid- to late summer  | Perennial forb             |
| BRAN               | <i>Bromus anomalus</i>                                      | <i>Bromus anomalus</i>                              | Locally common              | summer               | Perennial grass            |
| BRCA6              | <i>Bromus catharticus</i>                                   | <i>Bromus catharticus</i>                           | Not common                  | Midsummer            | Annual or biennial grass   |
| BRCI2              | <i>Bromus ciliatus</i>                                      | <i>Bromus ciliatus</i>                              | Locally common              | Mid- to late summer  | Perennial grass            |
| BRFR2              | <i>Bromus frondosus</i>                                     | <i>Bromus frondosus</i>                             | Not common                  | Late spring          | Perennial grass            |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS               | Martin and Hutchins (1980)     | Occurrence                                                     | Blooms                    | Habit                     |
|-------------|--------------------------------|--------------------------------|----------------------------------------------------------------|---------------------------|---------------------------|
| BRIN2       | <i>Bromus inermis</i>          | <i>Bromus inermis</i>          | Locally common                                                 | Late spring               | Perennial grass           |
| BRJA        | <i>Bromus japonicus</i>        | <i>Bromus japonicus</i>        | Locally common                                                 | Mid- to late summer       | Annual grass              |
| BRLA6       | <i>Bromus lanatipes</i>        | <i>Bromus lanatipes</i>        | See Pilz et al. (1979)                                         | Early to late summer      | Perennial grass           |
| BRMA4       | <i>Bromus marginatus</i>       | <i>Bromus marginatus</i>       | Locally common                                                 | Early summer to fall      | Perennial grass           |
| BRKA2       | <i>Bromus kalmii</i>           | <i>Bromus purgans</i>          | Not common                                                     | Mid- to late summer       | Perennial grass           |
| BRTE        | <i>Bromus tectorum</i>         | <i>Bromus tectorum</i>         | Locally common                                                 | Spring                    | Annual grass              |
| BUDA        | <i>Buchloe dactyloides</i>     | <i>Buchloe dactyloides</i>     | Not Common                                                     | June to October           | Perennial Grass           |
| CAGU        | <i>Calochortus gunnisonii</i>  | <i>Calochortus gunnisonii</i>  | Locally common                                                 | Late summer               | Perennial forb            |
| CANU3       | <i>Calochortus nuttallii</i>   | <i>Calochortus nuttallii</i>   | Not common                                                     | Early spring              | Perennial forb            |
| CAHA14      | <i>Calylophus hartwegii</i>    | <i>Calylophus hartwegii</i>    | Not common                                                     | Early to late summer      | Perennial forb            |
| CABU        | <i>Calypso bulbosa</i>         | <i>Calypso bulbosa</i>         | Not common                                                     | Spring to early summer    | Perennial forb            |
| CAM12       | <i>Camelina microcarpa</i>     | <i>Camelina microcarpa</i>     | Not common                                                     | Spring to early summer    | Annual forb               |
| CAPA10      | <i>Campanula parryi</i>        | <i>Campanula parryi</i>        | Locally common                                                 | Late summer               | Perennial forb            |
| CARO2       | <i>Campanula rotundifolia</i>  | <i>Campanula rotundifolia</i>  | Ubiquitous                                                     | Midsummer to early fall   | Perennial forb            |
| CABU2       | <i>Capsella bursa-pastoris</i> | <i>Capsella bursa-pastoris</i> | Common                                                         | Spring                    | Annual forb               |
| CACO6       | <i>Cardamine cordifolia</i>    | <i>Cardamine cordifolia</i>    | Locally common                                                 | All summer                | Perennial forb            |
| CADR        | <i>Cardaria draba</i>          | <i>Cardaria draba</i>          | Occasional                                                     |                           |                           |
| CANU4       | <i>Carduus nutans</i>          | <i>Carduus nutans</i>          | Occasional                                                     |                           |                           |
| CAAQ        | <i>Carex aquatilis</i>         | <i>Carex aquatilis</i>         | Pilz et al. (1979)                                             | Information not available | Perennial grass-like forb |
| CABE3       | <i>Carex bella</i>             | <i>Carex bella</i>             | See Osborne (1966); Pilz et al. (1979)                         | Information not available | Perennial grass-like forb |
| CABO2       | <i>Carex bolanderi</i>         | <i>Carex bolanderi</i>         | Occasional                                                     |                           |                           |
| CABR10      | <i>Carex brevior</i>           | <i>Carex brevior</i>           | Occasional                                                     |                           |                           |
| CACA11      | <i>Carex canescens</i>         | <i>Carex canescens</i>         | See Osborne (1966)                                             | Information not available | Perennial grass-like forb |
| CADO2       | <i>Carex douglasii</i>         | <i>Carex douglasii</i>         | Occasional                                                     |                           |                           |
| CADU6       | <i>Carex duriuscula</i>        | <i>Carex eleocharis</i>        | See Osborne (1966)                                             | Information not available | Perennial grass-like forb |
| CAM17       | <i>Carex microptera</i>        | <i>Carex festivella</i>        | Locally common                                                 | Midsummer                 | Perennial grass-like forb |
| CAFO3       | <i>Carex foenea</i>            | <i>Carex foenea</i>            | See Osborne (1966); Pilz et al. (1979)                         |                           |                           |
| CAGE        | <i>Carex geophila</i>          | <i>Carex geophila</i>          | See Barnes (1983)                                              | Information not available | Perennial grass-like forb |
| CAHY4       | <i>Carex hystericina</i>       | <i>Carex hystericina</i>       | Locally abundant                                               |                           |                           |
| CAIN11      | <i>Carex interior</i>          | <i>Carex interior</i>          | See Herbarium, Bandelier National Monument; Pilz et al. (1979) | Information not available | Perennial grass-like forb |
| CALA30      | <i>Carex lanuginosa</i>        | <i>Carex lanuginosa</i>        | Frequent                                                       |                           |                           |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                            | Occurrence                                 | Blooms                      | Habit                     |
|-------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------|---------------------------|
| CANE2       | <i>Carex nebraskensis</i>                             | <i>Carex nebraskensis</i>                             | See Pilz et al. (1979); Osborne (1966)     | Information not available   | Perennial grass-like forb |
| CAOC2       | <i>Carex occidentalis</i>                             | <i>Carex occidentalis</i>                             | Frequent                                   |                             |                           |
| CAPR5       | <i>Carex praegracilis</i>                             | <i>Carex praegracilis</i>                             | See Pilz et al. (1979)                     | Information not available   | Perennial grass-like forb |
| CASC11      | <i>Carex scoparia</i>                                 | <i>Carex scoparia</i>                                 | See Pilz et al. (1979)                     | Information not available   | Perennial grass-like forb |
| CAST5       | <i>Carex stipata</i>                                  | <i>Carex stipata</i>                                  | See Osborne (1966)                         | Information not available   | Perennial grass-like forb |
| CAXE        | <i>Carex xerantica</i>                                | <i>Carex xerantica</i>                                | See Osborne (1966)                         | Information not available   | Perennial grass-like forb |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>         | <i>Castilleja confusa</i>                             | See Osborne (1966)                         | Mid- to late summer         | Perennial forb            |
| CAIN14      | <i>Castilleja integra</i>                             | <i>Castilleja integra</i>                             | Common                                     | Early summer to fall        | Perennial forb            |
| CALI4       | <i>Castilleja linariifolia</i>                        | <i>Castilleja linariaefolia</i>                       | Not common                                 | Midsummer                   | Perennial forb            |
| CALI5       | <i>Castilleja lineata</i>                             | <i>Castilleja lineata</i>                             | See Pilz et al. (1979)                     | Midsummer to fall           | Perennial forb            |
| CAMI12      | <i>Castilleja miniata</i>                             | <i>Castilleja miniata</i>                             | Locally common                             | Early to late summer        | Perennial forb            |
| CAMI13      | <i>Castilleja minor</i>                               | <i>Castilleja minor</i>                               | Not common                                 | Spring to fall              | Perennial forb            |
| CARH4       | <i>Castilleja hexiifolia</i>                          | <i>Castilleja rhexifolia</i>                          | See Foxx and Tierney (1985)                | Midsummer to fall           | Perennial forb            |
| CEFE        | <i>Ceanothus fendleri</i>                             | <i>Ceanothus fendleri</i>                             | Locally common                             | Early summer                | Shrub                     |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>        | <i>Celtis reticulata</i>                              | Locally common                             | Spring                      | Tree                      |
| CEEC        | <i>Cenchrus echinatus</i>                             | <i>Cenchrus echinatus</i>                             | Locally common                             | Mid- to late summer         | Annual grass              |
| CEIN4       | <i>Cenchrus incertus</i>                              | <i>Cenchrus pauciflorus</i>                           | Locally common                             | Mid- to late summer         | Annual grass              |
| CECA3       | <i>Centaurium calycosum</i>                           | <i>Centaurium calycosum</i>                           | Not common to rare                         | Late spring to early summer | Annual or Perennial forb  |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                              | Frequent                                   |                             |                           |
| CEBR3       | <i>Cerastium brachypodum</i>                          | <i>Cerastium brachypodum</i>                          | See Osborne (1966)                         | Spring to late summer       | Annual forb               |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                             | Locally abundant                           |                             |                           |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | Locally common                             | Spring                      | Shrub                     |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | See Robertson (1968)                       | Spring to midsummer         | Shrub                     |
| CHCO        | <i>Chamaesaracha coniodes</i>                         | <i>Chamaesaracha coniodes</i>                         | Not common                                 | Midsummer                   | Perennial forb            |
| CHCO2       | <i>Chamaesaracha coronopus</i>                        | <i>Chamaesaracha coronopus</i>                        | See Herbarium, Bandelier National Monument | Spring to fall              | Perennial forb            |
| CHFE        | <i>Cheilanthes feei</i>                               | <i>Cheilanthes feei</i>                               | Occasional                                 |                             |                           |
| CHFE2       | <i>Cheilanthes fendleri</i>                           | <i>Cheilanthes fendleri</i>                           | See Pilz et al. (1979)                     | Not applicable              | Perennial forb            |
| CHTO2       | <i>Cheilanthes tomentosa</i>                          | <i>Cheilanthes tomentosa</i>                          | Occasional                                 |                             |                           |
| CHEA        | <i>Cheilanthes eatonii</i>                            | <i>Cheilanthes eatonii</i>                            | See Robertson (1968)                       | Not applicable              | Perennial forb            |
| CHAL6       | <i>Chenopodium albescens</i>                          | <i>Chenopodium albescens</i>                          | See Pilz et al. (1979); Housley (1974)     | Midsummer                   | Annual forb               |
| CHAL7       | <i>Chenopodium album</i>                              | <i>Chenopodium album</i>                              | Locally common                             | Midsummer                   | Annual forb               |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                     | Occurrence                             | Blooms               | Habit                      |
|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------|----------------------|----------------------------|
| CHBE4       | <i>Chenopodium berlandieri</i>                                                         | <i>Chenopodium berlandieri</i>                                 | See Robertson (1968)                   | Late summer to fall  | Annual forb                |
| CHCA4       | <i>Chenopodium capitatum</i>                                                           | <i>Chenopodium capitatum</i>                                   | See Pilz et al. (1979); Housley (1974) | Early to late summer | Annual forb                |
| CHCY        | <i>Chenopodium cycloides</i>                                                           | <i>Chenopodium cycloides</i>                                   | See Foxx and Tierney (1985)            | Late summer          | Annual forb                |
| CHDE        | <i>Chenopodium desiccatum</i>                                                          | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>           | Not common                             | Early summer to fall | Annual forb                |
| CHPR5       | <i>Chenopodium pratericola</i>                                                         | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i>      | Not common                             | Midsummer            | Perennial forb             |
| CHFR3       | <i>Chenopodium fremontii</i>                                                           | <i>Chenopodium fremontii</i>                                   | Locally common                         | Midsummer            | Annual                     |
| CHSI2       | <i>Chenopodium simplex</i>                                                             | <i>Chenopodium gigantospermum</i>                              | Locally common                         | Midsummer            | Annual forb                |
| CHGL3       | <i>Chenopodium glaucum</i>                                                             | <i>Chenopodium glaucum</i>                                     | Not common                             | Late summer to fall  | Annual forb                |
| CHGR2       | <i>Chenopodium graveolens</i>                                                          | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>         | Locally common                         | Late summer to fall  | Annual forb                |
| CHIN2       | <i>Chenopodium incanum</i>                                                             | <i>Chenopodium incanum</i>                                     | See Pilz et al. (1979)                 | Early to late summer | Annual forb                |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                                        | <i>Chenopodium leptophyllum</i>                                | Locally common                         | Midsummer            | Annual forb                |
| CHRU        | <i>Chenopodium rubrum</i>                                                              | <i>Chenopodium rubrum</i>                                      | Occasional                             |                      |                            |
| CHWA        | <i>Chenopodium watsonii</i>                                                            | <i>Chenopodium watsonii</i>                                    | See Foxx and Tierney (1985)            | Early to late summer | Annual forb                |
| CHUM        | <i>Chimaphila umbellata</i>                                                            | <i>Chimaphila umbellata</i>                                    | Locally common                         | Mid- to late summer  | Perennial forb             |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         | Not common                             | Late spring          | Annual grass               |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      | Locally common                         | Early summer to fall | Perennial forb             |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         | Common                                 | Midsummer to fall    | Shrub                      |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      | Common                                 | Late summer to fall  | Shrub                      |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           | Occasional                             |                      |                            |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             | Occasional                             |                      |                            |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> | Common                                 | Late summer to fall  | Shrub                      |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        | Locally common                         | Mid- to late summer  | Perennial forb             |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          | See Robertson (1966)                   | Early summer to fall | Perennial forb             |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    | Not common                             | Early to late summer | Biennial forb              |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                                            | <i>Cirsium ochrocentrum</i>                                    | See Pilz et al. (1979)                 | Early to late summer | Biennial forb              |
| CIPA5       | <i>Cirsium pallidum</i>                                                                | <i>Cirsium pallidum</i>                                        | Not common                             | Late summer to fall  | Perennial forb             |
| CIPA        | <i>Cirsium parryi</i>                                                                  | <i>Cirsium parryi</i>                                          | Not common                             | Mid- to late summer  | Perennial forb             |
| CICA10      | <i>Cirsium calcareum</i>                                                               | <i>Cirsium pulchellum</i>                                      | See Pilz et al. (1979)                 | Early to late summer | Biennial or Perennial forb |
| CIUN        | <i>Cirsium undulatum</i>                                                               | <i>Cirsium undulatum</i>                                       | Not common                             | Early to late summer | Biennial forb              |
| CIVU        | <i>Cirsium vulgare</i>                                                                 | <i>Cirsium vulgare</i>                                         | Occasional                             |                      |                            |
| CLDR        | <i>Clematis drummondii</i>                                                             | <i>Clematis drummondii</i>                                     | See Robertson (1968)                   | Spring to fall       | Perennial forb             |
| CLLI2       | <i>Clematis ligusticifolia</i>                                                         | <i>Clematis ligusticifolia</i>                                 | Not common                             | Late summer          | Vine                       |

# **OCCURRENCE CON'T**

| USDA Symbol | USDA NRCS PLANTS                                  | Martin and Hutchins (1980)                            | Occurrence                  | Blooms                       | Habit                            |
|-------------|---------------------------------------------------|-------------------------------------------------------|-----------------------------|------------------------------|----------------------------------|
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i> | <i>Clematis pseudoalpina</i>                          | Common                      | Early spring to early summer | Vine                             |
| CLSE        | <i>Cleome serrulata</i>                           | <i>Cleome serrulata</i>                               | Locally common              | Midsummer to fall            | Annual forb                      |
| CLVU        | <i>Clinopodium vulgare</i>                        | <i>Clinopodium vulgare</i>                            | See Robertson (1968)        | Mid- to late summer          | Perennial forb                   |
| COLI2       | <i>Collomia linearis</i>                          | <i>Collomia linearis</i>                              | Locally common              | Spring                       | Annual forb                      |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>     | <i>Comandra pallida</i>                               | Not common                  | Early to late summer         | Perennial forb                   |
| CODI4       | <i>Commelina dianthifolia</i>                     | <i>Commelina dianthifolia</i>                         | Not common                  | Late summer to fall          | Perennial forb                   |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>     | <i>Conopholis mexicana</i>                            | Occasional                  |                              |                                  |
| COAR4       | <i>Convolvulus arvensis</i>                       | <i>Convolvulus arvensis</i>                           | Common                      | Early to late summer         | Perennial forb                   |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>       | <i>Convolvulus sepium</i>                             | See Robertson (1968)        | Early to late summer         | Perennial forb                   |
| COCA5       | <i>Conyza canadensis</i>                          | <i>Conyza canadensis</i>                              | Locally common              | Early to late summer         | Annual forb                      |
| COMA4       | <i>Corallorrhiza maculata</i>                     | <i>Corallorrhiza maculata</i>                         | Locally common              | Early to midsummer           | Perennial forb                   |
| COST        | <i>Corallorrhiza striata</i>                      | <i>Corallorrhiza striata</i>                          | Rare                        | Midsummer                    | Perennial forb                   |
| COWR2       | <i>Cordylanthus wrightii</i>                      | <i>Cordylanthus wrightii</i>                          | Not common                  | Mid- to late summer          | Annual forb                      |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i>  | <i>Coreopsis cardaminefolia</i>                       | Locally common              | Early summer to fall         | Annual forb                      |
| COTI3       | <i>Coreopsis tinctoria</i>                        | <i>Coreopsis tinctoria</i>                            | See Foxx and Tierney (1985) | Midsummer to fall            | Annual forb                      |
| COSA        | <i>Coriandrum sativum</i>                         | <i>Coriandrum sativum</i>                             | See Robertson (1968)        | Spring to midsummer          | Annual forb                      |
| COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i>         | <i>Cornus stolonifera</i>                             | Not common                  | Spring to early summer       | Shrub                            |
| COAU2       | <i>Corydalis aurea</i>                            | <i>Corydalis aurea</i>                                | Ubiquitous                  | Spring to early summer       | Biennial or short-live Perennial |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>    | <i>Coryphantha vivipara</i>                           | Common                      | Early summer                 | Perennial forb                   |
| COPA12      | <i>Cosmos parviflorus</i>                         | <i>Cosmos parviflorus</i>                             | Locally common              | Mid- to late summer          | Annual forb                      |
| CRER        | <i>Crataegus erythropoda</i>                      | <i>Crataegus erythropoda</i>                          | Not common                  | Spring to early summer       | Shrub                            |
| CRTE4       | <i>Croton texensis</i>                            | <i>Croton texensis</i>                                | Common                      | Midsummer                    | Annual forb                      |
| CRFE3       | <i>Cryptantha fendleri</i>                        | <i>Cryptantha fendleri</i>                            | Locally common              | Early to late summer         | Annual forb                      |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>     | <i>Cryptantha jamesii</i>                             | Ubiquitous                  | Early summer to fall         | Perennial forb                   |
| CRM15       | <i>Cryptantha minima</i>                          | <i>Cryptantha minima</i>                              | Occasional                  |                              |                                  |
| CRAC3       | <i>Cryptogramma acrostichoides</i>                | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> | See Robertson (1968)        | Not applicable               | Perennial forb                   |
| CUFO        | <i>Cucurbita foetidissima</i>                     | <i>Cucurbita foetidissima</i>                         | Not common                  | Mid- to late summer          | Perennial forb                   |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i>    | <i>Cuscuta campestris</i>                             | Occasional                  |                              |                                  |
| CUUM        | <i>Cuscuta umbellata</i>                          | <i>Cuscuta umbellata</i>                              | Not common                  | Mid- to late summer          | Parasite                         |
| CYBU        | <i>Cymopterus bulbosus</i>                        | <i>Cymopterus bulbosus</i>                            | Common                      | Spring                       | Perennial forb                   |
| CYDA        | <i>Cynodon dactylon</i>                           | <i>Cynodon dactylon</i>                               | Locally common              | Early to late summer         | Perennial grass                  |
| CYEC        | <i>Cynosurus echinatus</i>                        | <i>Cynosurus echinatus</i>                            | Occasional                  |                              |                                  |
| CYSQ        | <i>Cyperus squarrosus</i>                         | <i>Cyperus aristatus</i>                              | Locally abundant            |                              |                                  |
| MISE3       | <i>Mitreola sessilifolia</i>                      | <i>Cyperus esculentus</i>                             | Locally common              | Information not available    | Perennial grass-like forb        |
| CYFE2       | <i>Cyperus fendlerianus</i>                       | <i>Cyperus fendlerianus</i>                           | See Foxx and Tierney (1985) | Information not available    | Perennial grass-like forb        |
| CYBI6       | <i>Cyperus bipartitus</i>                         | <i>Cyperus rivularis</i>                              | Occasional                  |                              |                                  |

# **OCCURRENCE CON'T**

| USDA Symbol | USDA NRCS PLANTS                               | Martin and Hutchins (1980)                            | Occurrence                                 | Blooms                    | Habit                            |
|-------------|------------------------------------------------|-------------------------------------------------------|--------------------------------------------|---------------------------|----------------------------------|
| CYPU10      | <i>Cypripedium pubescens</i>                   | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    | Sensitive                                  |                           |                                  |
| CYFR2       | <i>Cystopteris fragilis</i>                    | <i>Cystopteris fragilis</i>                           | Common                                     | Not applicable            | Perennial forb                   |
| DAGL        | <i>Dactylis glomerata</i>                      | <i>Dactylis glomerata</i>                             | Common                                     | Spring                    | Perennial grass                  |
| DABR        | <i>Dalea brachystachya</i>                     | <i>Dalea brachystachys</i>                            | Not common                                 | Late summer to early fall | Annual forb                      |
| DAFO        | <i>Dalea formosa</i>                           | <i>Dalea formosa</i>                                  | Not common                                 | Spring to midsummer       | Shrub                            |
| DALE3       | <i>Dalea leporina</i>                          | <i>Dalea leporina</i>                                 | Locally Abundant                           |                           |                                  |
| DANA        | <i>Dalea nana</i>                              | <i>Dalea nana</i>                                     | Not common                                 | Spring to fall            | Perennial forb                   |
| DAPO3       | <i>Dalea polygonoides</i>                      | <i>Dalea polygonoides</i>                             | See Herbarium, Bandelier National Monument | Late summer to fall       | Annual forb                      |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>     | <i>Dalea terminalis</i>                               | See Pilz et al. (1979)                     | Spring to fall            | Perennial forb                   |
| DAIN        | <i>Danthonia intermedia</i>                    | <i>Danthonia intermedia</i>                           | Locally common                             | Mid- to late summer       | Perennial grass                  |
| DAPA2       | <i>Danthonia parryi</i>                        | <i>Danthonia parryi</i>                               | See Herbarium, Bandelier National Monument | Mid- to late summer       | Perennial grass                  |
| DASP2       | <i>Danthonia spicata</i>                       | <i>Danthonia spicata</i>                              | See Osborne (1966)                         | Early to midsummer        | Perennial grass                  |
| DAWR2       | <i>Datura wrightii</i>                         | <i>Datura meteloides</i>                              | Not common                                 | Early to late summer      | Perennial forb                   |
| DEOC        | <i>Delphinium X occidentale</i>                | <i>Delphinium occidentale</i>                         | Not common                                 | Late summer               | Perennial forb                   |
| DEWO        | <i>Delphinium wootonii</i>                     | <i>Delphinium virescens</i> subsp. <i>wootonii</i>    | Locally common                             | Spring to early summer    | Perennial forb                   |
| DECE        | <i>Deschampsia cespitosa</i>                   | <i>Deschampsia caespitosa</i>                         | Locally common                             | Early to late summer      | Annual or Perennial grass        |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>   | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>        | Not common                                 | Spring to midsummer       | Annual forb                      |
| DEPI        | <i>Descurainia pinnata</i>                     | <i>Descurainia pinnata</i>                            | Locally common                             | Spring                    | Annual                           |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>   | <i>Descurainia richardsonii</i>                       | Locally common                             | Early to late summer      | Biennial or Perennial forb       |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>   | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>  | Occasional                                 |                           |                                  |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>  | <i>Descurainia richardsonii</i> subsp. <i>procera</i> | Occasional                                 |                           |                                  |
| DESO2       | <i>Descurainia sophia</i>                      | <i>Descurainia sophia</i>                             | Not common                                 | Spring to fall            | Annual forb                      |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>  | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i> | Frequent                                   |                           |                                  |
| DISP        | <i>Distichlis spicata</i>                      | <i>Distichlis spicata</i>                             | See Herbarium, Bandelier National Monument | Early to late summer      | Perennial grass                  |
| DISP        | <i>Distichlis spicata</i>                      | <i>Distichlis stricta</i>                             | Occasional                                 |                           |                                  |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                 | <i>Dithyrea wislizenii</i>                            | Locally common                             | Spring                    | Annual or possible biennial forb |
| DOAL        | <i>Dodecatheon alpinum</i>                     | <i>Dodecatheon alpinum</i>                            | See Robertson (1968)                       | Early summer to fall      | Perennial forb                   |
| DOPU        | <i>Dodecatheon pulchellum</i>                  | <i>Dodecatheon pulchellum</i>                         | Not common                                 | Early to late summer      | Perennial forb                   |
| DRAU        | <i>Draba aurea</i>                             | <i>Draba aurea</i> var. <i>aurea</i>                  | Locally common                             | Midsummer to fall         | Perennial forb                   |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i> | <i>Draba helleriana</i> var. <i>helleriana</i>        | Not common                                 | Midsummer to fall         | Perennial forb                   |
| DRRE        | <i>Draba rectifruta</i>                        | <i>Draba rectifruta</i>                               | See Osborne (1966)                         | Spring to early summer    | Annual forb                      |
| DRRE2       | <i>Draba reptans</i>                           | <i>Draba reptans</i>                                  | Occasional                                 |                           |                                  |
| DRSP        | <i>Draba spectabilis</i>                       | <i>Draba spectabilis</i>                              | See Foxx and Tierney (1985)                | Spring to early summer    | Perennial forb                   |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                | Martin and Hutchins (1980)                                      | Occurrence                                 | Blooms                    | Habit                               |
|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------|---------------------------|-------------------------------------|
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     | See Robertson (1968); Osborne (1966)       | Not applicable            | Perennial forb                      |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         | Locally common                             | Late summer to fall       | Annual forb                         |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        | See Herbarium, Bandelier National Monument | summer to fall            | Perennial forb                      |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    | Common                                     | Early summer              | Perennial forb                      |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | Common                                     | Early summer              | Perennial forb                      |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   | Not common                                 | Early summer              | Perennial forb                      |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | Not common                                 | Early summer              | Perennial forb                      |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    | Not common                                 | Spring                    | Annual grass                        |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   | Locally common                             | Spring                    | Tree                                |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  | Frequent                                   |                           |                                     |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        | Locally common                             | Mid- to late summer       | Perennial grass                     |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           | See Pilz et al. (1979)                     | Spring to fall            | Perennial grass                     |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        | Not common                                 | Early summer              | Perennial grass                     |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        | Occasional                                 |                           |                                     |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                      | <i>Ephedra viridis</i> var. <i>viridis</i>                      | Not common to locally common               | Spring                    | Shrub                               |
| EPAN2       | <i>Epilobium angustifolium</i>                                  | <i>Epilobium angustifolium</i>                                  | Locally common                             | Mid- to late summer       | Perennial forb                      |
| EPCI        | <i>Epilobium ciliatum</i>                                       | <i>Epilobium ciliatum</i>                                       | Locally common                             | Mid- to late summer       | Annual or Perennial forb            |
| EPOR2       | <i>Epilobium oregonense</i>                                     | <i>Epilobium oregonense</i>                                     | See Robertson (1968)                       | Mid- to late summer       | Perennial forb                      |
| EPBR3       | <i>Epilobium brachycarpum</i>                                   | <i>Epilobium paniculatum</i>                                    | Locally common                             | Mid- to late summer       | Annual forb                         |
| EPGI        | <i>Epipactis gigantea</i>                                       | <i>Epipactis gigantea</i>                                       | Rare                                       | Spring to early summer    | Perennial forb                      |
| EQAR        | <i>Equisetum arvense</i>                                        | <i>Equisetum arvense</i>                                        | Locally common                             | Spring                    | Perennial grass-like forb           |
| EQHY        | <i>Equisetum hyemale</i>                                        | <i>Equisetum hiemale</i>                                        | Locally common                             | Spring to early summer    | Perennial grass-like forb           |
| EQLA        | <i>Equisetum laevigatum</i>                                     | <i>Equisetum laevigatum</i>                                     | Locally common                             | Information not available | Annual or Perennial grass-like forb |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>              | <i>Eragrostis arida</i>                                         | Locally common                             | Early summer              | Annual forb                         |
| ERBA2       | <i>Eragrostis barrelieri</i>                                    | <i>Eragrostis barrelieri</i>                                    | Not common                                 | Early to midsummer        | Annual grass                        |
| ERCI        | <i>Eragrostis cilianensis</i>                                   | <i>Eragrostis cilianensis</i>                                   | Locally abundant                           |                           |                                     |
| ERCU2       | <i>Eragrostis curvula</i>                                       | <i>Eragrostis curvula</i>                                       | Occasional                                 |                           |                                     |
| ERHY        | <i>Eragrostis hypnoides</i>                                     | <i>Eragrostis hypnoides</i>                                     | Occasional                                 |                           |                                     |
| ERPE        | <i>Eragrostis pectinacea</i>                                    | <i>Eragrostis pectinacea</i>                                    | Locally abundant                           |                           |                                     |
| ERTR3       | <i>Eragrostis trichodes</i>                                     | <i>Eragrostis trichodes</i>                                     | Occasional                                 |                           |                                     |
| ERCA4       | <i>Erigeron canus</i>                                           | <i>Erigeron canus</i>                                           | Locally common                             | Early to late summer      | Perennial forb                      |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                        | Martin and Hutchins (1980)                              | Occurrence                                  | Blooms               | Habit                      |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|----------------------|----------------------------|
| ERDI4       | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               | Ubiquitous                                  | Spring to fall       | Biennial forb              |
| EREL9       | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 | See Osborne (1966)                          | Early summer to fall | Perennial forb             |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             | Ubiquitous                                  | Spring to fall       | Biennial or Perennial      |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | See Osborne (1966); Robertson (1968)        | Late summer          | Perennial forb             |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus viscidus</i>                  | Locally abundant                            |                      |                            |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              | Not common                                  | Early to midsummer   | Biennial forb              |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  | See Foxx and Tierney (1985)                 | Mid- to late summer  | Perennial or biennial forb |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          | Locally common                              | Late summer to fall  | Perennial or biennial forb |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            | See Pilz et al. (1979); Robertson (1968)    | Late summer to fall  | Perennial forb             |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinnus</i>         | <i>Erigeron pumilus</i> subsp. <i>concinoides</i>       | Not common                                  | Early summer         | Perennial forb             |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              | Occasional                                  |                      |                            |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 | Not common                                  | Midsummer            | Perennial forb             |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | Locally common                              | Midsummer to fall    | Perennial forb             |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            | Ubiquitous                                  | Midsummer to fall    | Perennial forb             |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                | See Osborne (1966); Foxx and Tierney (1985) | Late summer to fall  | Perennial forb             |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               | See Osborne (1966)                          | Early to late summer | Perennial forb             |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                | Locally common                              | Early summer to fall | Perennial forb             |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               | See Robertson (1968)                        | Midsummer to fall    | Annual grass               |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             | See Herbarium, Bandelier National Monument  | Spring to summer     | Annual or biennial forb    |
| ERAL4       | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 | See Herbarium, Bandelier National Monument  | Spring to fall       | Annual forb                |
| ERAN4       | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 | See Herbarium, Bandelier National Monument  | Spring to fall       | Annual forb                |
| ERCE2       | <i>Eriogonum cernuum</i>                                | <i>Eriogonum cernuum</i>                                | Locally common                              | Late summer          | Annual forb                |
| EREF        | <i>Eriogonum effusum</i>                                | <i>Eriogonum effusum</i>                                | Not common                                  | Mid- to late summer  | Perennial                  |
| ERJA        | <i>Eriogonum jamesii</i>                                | <i>Eriogonum jamesii</i>                                | Locally common                              | Mid- to late summer  | Perennial forb             |
| ERLE9       | <i>Eriogonum leptocladon</i>                            | <i>Eriogonum leptocladon</i>                            | Not common                                  | Midsummer to fall    | Perennial forb             |
| ERPO4       | <i>Eriogonum polycladon</i>                             | <i>Eriogonum polycladon</i>                             | See Pilz et al. (1979); Robertson (1968)    | Early summer to fall | Annual forb                |
| ERRA3       | <i>Eriogonum racemosum</i>                              | <i>Eriogonum racemosum</i>                              | Common                                      | Late summer          | Perennial forb             |
| ERC16       | <i>Erodium cicutarium</i>                               | <i>Erodium cicutarium</i>                               | Locally common                              | Spring to midsummer  | Annual forb                |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>         | <i>Erysimum asperum</i>                                 | See Foxx and Tierney (1985)                 | Spring to midsummer  | Perennial forb             |
| ERCA14      | <i>Erysimum capitatum</i>                               | <i>Erysimum capitatum</i>                               | Locally common                              | Spring to midsummer  | Perennial or biennial forb |



## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                        | Occurrence                                     | Blooms               | Habit                      |
|-------------|-----------------------------------------------------------|---------------------------------------------------|------------------------------------------------|----------------------|----------------------------|
| ERIN7       | <i>Erysimum inconspicuum</i>                              | <i>Erysimum inconspicuum</i>                      | See Foxx and Tierney (1985)                    | Early to late summer | Perennial or biennial forb |
| ERHE7       | <i>Erythronium hendersonii</i>                            | <i>Eupatorium herbaceum</i>                       | Locally common                                 | Fall                 | Perennial forb             |
| CHAL11      | <i>Chamaesyce albomarginata</i>                           | <i>Euphorbia albomarginata</i>                    | Common                                         | Spring to fall       | Perennial forb             |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i>                          | Locally common                                 | Midsummer to fall    | Annual forb                |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>  | Locally common                                 | Midsummer to fall    | Annual forb                |
| EUEX4       | <i>Euphorbia exstipulata</i>                              | <i>Euphorbia exstipulata</i>                      | Not common                                     | Late summer to fall  | Annual forb                |
| CHFE3       | <i>Chamaesyce fendleri</i>                                | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    | See Robertson (1968)                           | Spring to fall       | Perennial forb             |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>               | <i>Euphorbia geyeri</i>                           | See Barnes (1983)                              | Early to late summer | Annual forb                |
| EULU        | <i>Euphorbia lurida</i>                                   | <i>Euphorbia lurida</i>                           | See Pilz et al. (1979)                         | Spring to fall       | Annual forb                |
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> | See Housley (1974)                             | Midsummer to fall    | Annual forb                |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      | Not common                                     | Late summer          | Annual forb                |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         | Barnes (1983)                                  | Late summer to fall  | Annual forb                |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          | Locally abundant                               |                      |                            |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    | See Pilz et al. (1979)                         | Spring to fall       | Annual forb                |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             | Not common                                     | Late summer          | Shrub                      |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                          | Occasional                                     |                      |                            |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                          | Common                                         | Early to late summer | Shrub                      |
| FERUR       | <i>Fendlera rupicola</i> var. <i>rupicola</i>             | <i>Fendlera rupicola</i> var. <i>rupicola</i>     | Locally common                                 | Spring               | Shrub                      |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                          | See Osborne (1966)                             | Early to late summer | Perennial grass            |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                            | See Herbarium, Bandelier National Monument     | Early to late summer | Perennial grass            |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                          | See Herbarium, Bandelier National Monument     | Spring to midsummer  | Annual grass               |
| FEOV        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                              | Abundant in burned areas reseeded with species | Spring               | Perennial grass            |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                            | Locally common                                 | summer               | Perennial grass            |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                           | Locally common                                 | Early to late summer | Perennial grass            |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                     | Common                                         | Early spring         | Shrub                      |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>               | <i>Fragaria americana</i>                         | Locally common                                 | Early summer to fall | Perennial forb             |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>         | <i>Fragaria ovalis</i>                            | See Pilz et al. (1979)                         | Spring to fall       | Perennial forb             |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                        | <i>Franseria acanthicarpa</i>                     | Not common                                     | Midsummer to fall    | Annual forb                |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                         | <i>Franseria confertiflora</i>                    | Locally common                                 | summer to fall       | Perennial forb             |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                       | <i>Gaillardia pinnatifida</i>                     | Locally common                                 | Early summer to fall | Perennial forb             |
| GAAP2       | <i>Galium aparine</i> L.                                  | <i>Galium aparine</i>                             | Locally common                                 | Early to late summer | Annual forb                |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>asperrimum</i>            | <i>Galium asperrimum</i>                          | Locally common                                 | Midsummer to fall    | Perennial forb             |
| GABO2       | <i>Galium boreale</i>                                     | <i>Galium boreale</i>                             | Locally common                                 | Mid- to late summer  | Perennial forb             |
| GAFE        | <i>Galium fendleri</i>                                    | <i>Galium fendleri</i>                            | See Pilz et al. (1979)                         | Early summer to fall | Perennial forb             |

# **OCCURRENCE CON'T**

| <b>USDA Symbol</b> | <b>USDA NRCS PLANTS</b>                                 | <b>Martin and Hutchins (1980)</b>                | <b>Occurrence</b>                                             | <b>Blooms</b>          | <b>Habit</b>               |
|--------------------|---------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------|----------------------------|
| GAMI               | <i>Galium microphyllum</i>                              | <i>Galium microphyllum</i>                       | Not common                                                    | Early summer to fall   | Perennial forb             |
| GATRS2             | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>          | <i>Galium tinctorum</i> var. <i>subbiflorum</i>  | See Robertson (1968)                                          | Early to late summer   | Perennial forb             |
| GACO5              | <i>Gaura coccinea</i>                                   | <i>Gaura coccinea</i>                            | Common                                                        | Spring to summer       | Perennial forb             |
| GAPA6              | <i>Gaura parviflora</i>                                 | <i>Gaura parviflora</i>                          | Not common                                                    | Mid- to late summer    | Biennial or Annual forb    |
| GEAF               | <i>Gentiana affinis</i>                                 | <i>Gentiana affinis</i>                          | Locally common                                                | Midsummer to fall      | Perennial forb             |
| GEAF               | <i>Gentiana affinis</i>                                 | <i>Gentiana bigelovii</i>                        | Not common                                                    | Late summer to fall    | Perennial forb             |
| GEAMA              | <i>Gentianella amarella</i> ssp. <i>acuta</i>           | <i>Gentiana plebeia</i>                          | Not common                                                    | Late summer to fall    | Annual forb                |
| GEAMA              | <i>Gentianella amarella</i> ssp. <i>acuta</i>           | <i>Gentiana strictiflora</i>                     | Not common                                                    | Late summer to fall    | Annual forb                |
| GECA3              | <i>Geranium caespitosum</i>                             | <i>Geranium caespitosum</i>                      | Locally common                                                | Spring to fall         | Perennial forb             |
| GECAF              | <i>Geranium caespitosum</i> var. <i>fremontii</i>       | <i>Geranium fremontii</i>                        | See Robertson (1968); Osborne (1966); Foxx and Tierney (1985) | Early summer to fall   | Perennial forb             |
| GECAP2             | <i>Geranium caespitosum</i> var. <i>parryi</i>          | <i>Geranium fremontii</i> var. <i>parryi</i>     | See Robertson (1968)                                          | Early summer to fall   | Perennial forb             |
| GERI               | <i>Geranium richardsonii</i>                            | <i>Geranium richardsonii</i>                     | Not common at lower elev.; locally common higher              | Mid- to late summer    | Perennial forb             |
| GEMAP              | <i>Geum macrophyllum</i> var. <i>perincisum</i>         | <i>Geum macrophyllum</i> var. <i>perincisum</i>  | See Robertson (1968); Osborne (1966)                          | Spring to early summer | Perennial forb             |
| GERI2              | <i>Geum rivale</i>                                      | <i>Geum rivale</i>                               | Not common                                                    | Spring to early summer | Perennial forb             |
| GEAL3              | <i>Geum aleppicum</i>                                   | <i>Geum strictum</i> var. <i>strictum</i>        | See Robertson (1968)                                          | Spring to early summer | Perennial forb             |
| GETRC2             | <i>Geum triflorum</i> var. <i>ciliatum</i>              | <i>Geum triflorum</i> var. <i>ciliatum</i>       | Not common                                                    | Spring to early summer | Perennial forb             |
| GIFLA              | <i>Gilia flavocincta</i> ssp. <i>australis</i>          | <i>Gilia flavocincta</i> subsp. <i>australis</i> | Occasional                                                    |                        |                            |
| GILE3              | <i>Gilia leptomeria</i>                                 | <i>Gilia leptomeria</i>                          | See Housley (1974)                                            | Spring to early summer | Annual forb                |
| GIPI               | <i>Gilia pinnatifida</i>                                | <i>Gilia pinnatifida</i>                         | See Foxx and Tierney (1985)                                   | Early to late summer   | Biennial or Perennial forb |
| GLBO               | <i>Glyceria borealis</i>                                | <i>Glyceria borealis</i>                         | See Robertson (1968)                                          | Early to late summer   | Perennial grass            |
| GLGR               | <i>Glyceria grandis</i>                                 | <i>Glyceria grandis</i>                          | Locally abundant                                              |                        |                            |
| GLST               | <i>Glyceria striata</i>                                 | <i>Glyceria striata</i>                          | Not common                                                    | Spring                 | Perennial grass            |
| GLLE3              | <i>Glycyrrhiza lepidota</i>                             | <i>Glycyrrhiza lepidota</i>                      | Locally common                                                | Spring to early summer | Perennial forb             |
| PSST7              | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       | Occasional                                                    |                        |                            |
| PSST7              | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       | See Foxx and Tierney (1985)                                   | summer to fall         | Annual to biennial forb    |
| GNEX               | <i>Gnaphalium exilifolium</i>                           | <i>Gnaphalium grayi</i>                          | Occasional                                                    |                        |                            |
| PSMA11             | <i>Pseudognaphalium macounii</i>                        | <i>Gnaphalium macounii</i>                       | Occasional                                                    |                        |                            |
| GNPA               | <i>Gnaphalium palustre</i>                              | <i>Gnaphalium palustre</i>                       | Occasional                                                    |                        |                            |
| PSCAC2             | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i> | <i>Gnaphalium wrightii</i>                       | Locally abundant                                              |                        |                            |
| GOOB2              | <i>Goodyera oblongifolia</i>                            | <i>Goodyera oblongifolia</i>                     | Locally common                                                | Late summer            | Perennial forb             |
| GORE2              | <i>Goodyera repens</i>                                  | <i>Goodyera repens</i>                           | Not common                                                    | Late summer            | Perennial forb             |
| GRNUA              | <i>Grindelia nuda</i> var. <i>aphanactis</i>            | <i>Grindelia aphanactis</i>                      | Locally common                                                | Late summer to fall    | Biennial forb              |
| GRFA               | <i>Grindelia fastigiata</i>                             | <i>Grindelia fastigiata</i>                      | See Foxx and Tierney (1985)                                   | Mid- to late summer    | Perennial forb             |

# **OCCURRENCE CON'T**

| <b>USDA Symbol</b> | <b>USDA NRCS PLANTS</b>                                                           | <b>Martin and Hutchins (1980)</b>                      | <b>Occurrence</b>                                              | <b>Blooms</b>             | <b>Habit</b>               |
|--------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------|---------------------------|----------------------------|
| GRSQ               | <i>Grindelia squarrosa</i>                                                        | <i>Grindelia squarrosa</i>                             | Rare                                                           | Fall                      | Biennial or Perennial      |
| GUMI               | <i>Gutierrezia microcephala</i>                                                   | <i>Gutierrezia microcephala</i>                        | Not common                                                     | Late summer to fall       | Subshrub                   |
| GUSA2              | <i>Gutierrezia sarothrae</i>                                                      | <i>Gutierrezia sarothrae</i>                           | Ubiquitous                                                     | Late summer to fall       | Subshrub                   |
| PLHYH2             | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>                              | <i>Habenaria hyperborea</i>                            | Locally Abundant                                               |                           |                            |
| PLSPS              | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>                            | <i>Habenaria sparsiflora</i>                           | Not common                                                     | Midsummer                 | Perennial forb             |
| HAFL2              | <i>Hackelia floribunda</i>                                                        | <i>Hackelia floribunda</i>                             | Ubiquitous                                                     | Spring to midsummer       | Biennial or Perennial forb |
| HABE3              | <i>Hackelia besseyi</i>                                                           | <i>Hackelia grisea</i>                                 | Occasional                                                     |                           |                            |
| HAPI2              | <i>Hackelia pinetorum</i>                                                         | <i>Hackelia pinetorum</i>                              | See Robertson (1968)                                           | Early to late summer      | Perennial forb             |
| PYCRC              | <i>Pyrrocoma crocea</i> var. <i>crocea</i>                                        | <i>Haplopappus croceus</i>                             | Occasional                                                     |                           |                            |
| MAGR10             | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                            | Ubiquitous                                                     | Late summer to fall       | Annual forb                |
| MAGR6              | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                           | See Robertson (1968)                                           | Early summer to fall      | Perennial forb             |
| SOPA4              | <i>Solidago parryi</i>                                                            | <i>Haplopappus parryi</i>                              | Not common                                                     | Late summer               | Perennial forb             |
| MAPIP4             | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> | Abundant                                                       | Late summer               | Perennial forb             |
| HEDR               | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                              | Common                                                         | Early to late summer      | Perennial forb             |
| HENA               | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                    | See Herbarium, Bandelier National Monument; Pilz et al. (1979) | Spring to fall            | Perennial forb             |
| HEOB               | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                            | See Robertson (1968)                                           | Spring to fall            | Annual forb                |
| HEPU12             | <i>Hedeoma pulcherrima</i>                                                        | <i>Hedeoma pulcherrima</i>                             | Occasional                                                     |                           |                            |
| HEAUM              | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>         | Occasional                                                     |                           |                            |
| HYHO               | <i>Hymenoxys hoopesii</i>                                                         | <i>Helenium hoopesii</i>                               | Not common                                                     | Late summer               | Perennial forb             |
| HEQU2              | <i>Helianthella quinquenervis</i>                                                 | <i>Helianthella quinquenervis</i>                      | Locally common                                                 | Midsummer                 | Perennial forb             |
| HEAN3              | <i>Helianthus annuus</i>                                                          | <i>Helianthus annuus</i>                               | Ubiquitous                                                     | Mid- to late summer       | Annual forb                |
| HEAR8              | <i>Helianthus arizonensis</i>                                                     | <i>Helianthus arizonensis</i>                          | Robertson (1968)                                               | summer                    | Perennial forb             |
| HEPE               | <i>Helianthus petiolaris</i>                                                      | <i>Helianthus petiolaris</i>                           | Locally common                                                 | Mid- to late summer       | Annual forb                |
| HEPAS              | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i>                          | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i> | Occasional                                                     |                           |                            |
| HEMA80             | <i>Heracleum maximum</i>                                                          | <i>Heracleum lanatum</i>                               | Not common                                                     | Early to late summer      | Perennial forb             |
| HEPA11             | <i>Heuchera parvifolia</i>                                                        | <i>Heuchera parvifolia</i>                             | Common                                                         | Early summer to fall      | Perennial forb             |
| HICA4              | <i>Hieracium cameum</i>                                                           | <i>Hieracium cameum</i>                                | Occasional                                                     |                           |                            |
| HIFE               | <i>Hieracium fendleri</i>                                                         | <i>Hieracium fendleri</i>                              | Not common                                                     | Mid- to late summer       | Annual forb                |
| HIOD               | <i>Hierochloa odorata</i>                                                         | <i>Hierochloa odorata</i>                              | See Osborne (1966)                                             | Early to midsummer        | Perennial grass            |
| PLJA               | <i>Pleuraphis jamesii</i>                                                         | <i>Hilaria jamesii</i>                                 | Common                                                         | Spring to early summer    | Perennial grass            |
| HODU               | <i>Holodiscus dumosus</i>                                                         | <i>Holodiscus dumosus</i>                              | Locally common                                                 | Late summer to early fall | Shrub                      |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                                | Occurrence                                   | Blooms                    | Habit                            |
|-------------|-------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|---------------------------|----------------------------------|
| HOBR2       | <i>Hordeum brachyantherum</i>                         | <i>Hordeum brachyantherum</i>                             | See Osborne (1966)                           | Early to late summer      | Perennial grass                  |
| HOJU        | <i>Hordeum jubatum</i>                                | <i>Hordeum jubatum</i>                                    | Locally common                               | Early summer              | Perennial grass                  |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>         | <i>Humulus americanus</i>                                 | Locally common                               | Midsummer                 | Perennial forb                   |
| HYFE        | <i>Hydrophyllum fendleri</i>                          | <i>Hydrophyllum fendleri</i>                              | Locally common                               | Spring to midsummer       | Perennial forb                   |
| HYFI        | <i>Hymenopappus filifolius</i>                        | <i>Hymenopappus filifolius</i>                            | Locally common                               | Spring                    | Perennial forb                   |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i> | <i>Hymenopappus flavescens</i> var. <i>canotomentosus</i> | Occasional                                   |                           |                                  |
| HYNE        | <i>Hymenopappus newberryi</i>                         | <i>Hymenopappus newberryi</i>                             | Pilz et al. 1979                             | summer                    | Perennial forb                   |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                       | <i>Hymenopappus tenuifolius</i>                           | Not common                                   | Early summer              | Biennial forb                    |
| TECA2       | <i>Tetradymia canescens</i>                           | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>              | See Foxx and Tierney (1985)                  | Spring to fall            | Perennial forb                   |
| TEACA       | <i>Tetaneuris acaulis</i> var. <i>arizonica</i>       | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>            | See Robertson (1968)                         | Spring to fall            | Perennial forb                   |
| TEACN       | <i>Tetaneuris acaulis</i> var. <i>nana</i>            | <i>Hymenoxys argentea</i>                                 | Ubiquitous                                   | Spring to early summer    | Perennial forb                   |
| TEBR        | <i>Tetaneuris brandegei</i>                           | <i>Hymenoxys brandegei</i>                                | See Robertson (1968; Foxx and Tierney (1985) | Late summer to fall       | Perennial forb                   |
| TEIV        | <i>Tetaneuris ivesiana</i>                            | <i>Hymenoxys ivesiana</i>                                 | See Pilz et al. (1979)                       | Spring to fall            | Perennial forb                   |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>  | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>      | Ubiquitous                                   | Mid- to late summer       | Perennial forb                   |
| HYNI        | <i>Hyoscyamus niger</i>                               | <i>Hyoscyamus niger</i>                                   | See Herbarium, Bandelier National Monument   | Information not available | Annual or biennial forb          |
| HYFO4       | <i>Hypericum formosum</i>                             | <i>Hypericum formosum</i>                                 | Not common                                   | Late summer to fall       | Perennial forb                   |
| IPCO3       | <i>Ipomoea coccinea</i>                               | <i>Ipomoea coccinea</i>                                   | Not common                                   | Late summer               | Perennial forb                   |
| IPHE        | <i>Ipomoea hederacea</i>                              | <i>Ipomoea hederacea</i>                                  | Not common                                   | Early to late summer      | Annual forb                      |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>      | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>        | Common                                       | Late summer               | Perennial forb                   |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>     | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>           | See Foxx and Tierney (1985)                  | Early summer to fall      | Biennial forb                    |
| IPLA2       | <i>Ipomopsis laxiflora</i>                            | <i>Ipomopsis laxiflora</i>                                | See Herbarium, Bandelier National Monument   | Spring to late summer     | Annual forb                      |
| IPLO2       | <i>Ipomopsis longiflora</i>                           | <i>Ipomopsis longiflora</i>                               | Locally common                               | Late summer               | Annual (sometimes biennial) forb |
| IPMU3       | <i>Ipomopsis multiflora</i>                           | <i>Ipomopsis multiflora</i>                               | See Pilz et al. (1979)                       | Late summer to fall       | Perennial forb                   |
| IPPU4       | <i>Ipomopsis pumila</i>                               | <i>Ipomopsis pumila</i>                                   | Not common                                   | Early to late summer      | Annual forb                      |
| IRMI        | <i>Iris missouriensis</i>                             | <i>Iris missouriensis</i>                                 | Common                                       | Spring to early summer    | Perennial forb                   |
| IVAX        | <i>Iva axillaris</i>                                  | <i>Iva axillaris</i>                                      | See Pilz et al. (1979)                       | Early to late summer      | Perennial forb                   |
| IVXA        | <i>Iva xanthifolia</i>                                | <i>Iva xanthifolia</i>                                    | Not common                                   | Late summer to fall       | Annual forb                      |
| JAAM        | <i>Jamesia americana</i>                              | <i>Jamesia americana</i>                                  | Locally common                               | Early summer              | Shrub                            |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>           | <i>Juncus balticus</i> var. <i>montanus</i>               | Locally common                               | Midsummer to fall         | Perennial forb                   |
| JUBU        | <i>Juncus bufonius</i>                                | <i>Juncus bufonius</i>                                    | Locally common                               | summer to fall            | Annual forb                      |
| JUCO2       | <i>Juncus confusus</i>                                | <i>Juncus confusus</i>                                    | See Osborne (1966)                           | Midsummer to fall         | Perennial forb                   |
| JUDR        | <i>Juncus drummondii</i>                              | <i>Juncus drummondii</i>                                  | Locally common                               | Mid- to late summer       | Perennial forb                   |
| JUIN2       | <i>Juncus interior</i>                                | <i>Juncus interior</i>                                    | Locally common                               | Early to late summer      | Perennial forb                   |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>     | <i>Juncus longistylis</i> var. <i>longistylis</i>         | See Robertson (1968)                         | Late summer to fall       | Perennial forb                   |

# **OCCURRENCE CON'T**

| <b>USDA Symbol</b> | <b>USDA NRCS PLANTS</b>                                 | <b>Martin and Hutchins (1980)</b>            | <b>Occurrence</b>                          | <b>Blooms</b>             | <b>Habit</b>                     |
|--------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------|----------------------------------|
| JUMA4              | <i>Juncus marginatus</i>                                | <i>Juncus marginatus</i>                     | See Robertson (1968)                       | Early summer to fall      | Perennial forb                   |
| JUME4              | <i>Juncus mexicanus</i>                                 | <i>Juncus mexicanus</i>                      | See Robertson (1968)                       | Midsummer to fall         | Perennial forb                   |
| JUTE               | <i>Juncus tenuis</i>                                    | <i>Juncus tenuis</i>                         | Locally abundant                           |                           |                                  |
| JUTO               | <i>Juncus torreyi</i>                                   | <i>Juncus torreyi</i>                        | See Pilz. et al. (1979)                    | Midsummer to fall         | Perennial forb                   |
| JUXI               | <i>Juncus xiphioides</i>                                | <i>Juncus xiphioides</i>                     | Frequent                                   |                           |                                  |
| JUCO6              | <i>Juniperus communis</i>                               | <i>Juniperus communis</i>                    | Common                                     | Spring                    | Shrub                            |
| JUDE2              | <i>Juniperus deppeana</i>                               | <i>Juniperus deppeana</i>                    | Scattered to locally common                | Early spring              | Tree to large shrub              |
| JUMO               | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                  | Abundant                                   | Early spring              | Tree to large shrub              |
| JUSC2              | <i>Juniperus scopulorum</i>                             | <i>Juniperus scopulorum</i>                  | Not common                                 | Spring                    | Medium-sized tree to small shrub |
| KAHI               | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>             | See Foxx and Tierney (1985)                | Late summer to fall       | Annual forb                      |
| KOSC               | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                       | Locally abundant                           | Late summer               | Annual forb                      |
| KOMA               | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                     | Common                                     | Early summer              | Perennial grass                  |
| KRBI               | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                        | Occasional                                 |                           |                                  |
| BREUC2             | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                    | Not common                                 | Early to late summer      | Perennial forb                   |
| LACA               | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                    | Locally abundant                           |                           |                                  |
| LAGR               | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                  | See Herbarium, Bandelier National Monument | Mid- to late summer       | Biennial forb                    |
| LALU               | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                   | Not common                                 | Early summer to fall      | Biennial forb                    |
| LATAP              | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                     | Not common                                 | Mid- to late summer       | Perennial forb                   |
| LASE               | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                      | Not common                                 | Late summer               | Annual or biennial forb          |
| LABI               | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                       | Occasional                                 |                           |                                  |
| LASQ               | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                      | Locally common                             | Early to late summer      | Annual forb                      |
| LAOCO              | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                     | Locally common                             | Spring to fall            | Annual forb                      |
| LAOCC              | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                        | Locally common                             | Early summer              | Annual forb                      |
| LALAL3             | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus arizonicus</i>                   | Common                                     | Early to midsummer        | Perennial forb                   |
| LALAL3             | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus leucanthus</i>                   | See Pilz et al. (1979)                     | Early summer to fall      | Perennial forb                   |
| LEOR               | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                     | Occasional                                 |                           |                                  |
| LEMI3              | <i>Lemna minor</i>                                      | <i>Lemna minor</i>                           | Rare                                       | Information not available | Perennial forb                   |
| LEVIM              | <i>Lepidium virginicum</i> var. <i>medium</i>           | <i>Lepidium medium</i> var. <i>pubescens</i> | See Pilz et al. (1979)                     | Spring to fall            | Annual forb                      |
| LEVIP              | <i>Lepidium virginicum</i> var. <i>pubescens</i>        | <i>Lepidium medium</i> var. <i>medium</i>    | Common                                     | Spring to midsummer       | Annual forb                      |
| LEFE               | <i>Lesquerella fendleri</i>                             | <i>Lesquerella fendleri</i>                  | Not common                                 | Spring to early summer    | Perennial forb                   |
| LEIN3              | <i>Lesquerella intermedia</i>                           | <i>Lesquerella intermedia</i>                | Common                                     | Early summer              | Perennial forb                   |
| LERE3              | <i>Lesquerella rectipes</i>                             | <i>Lesquerella rectipes</i>                  | See Barnes (1983)                          | Spring to early summer    | Perennial forb                   |
| CHER2              | <i>Chaetopappa ericoides</i>                            | <i>Leucelene ericoides</i>                   | Locally common                             | Early summer to fall      | Perennial forb                   |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                      | Martin and Hutchins (1980)                        | Occurrence                                                          | Blooms                    | Habit                      |
|-------------|-----------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------|---------------------------|----------------------------|
| LIPU        | <i>Liatris punctata</i>                                               | <i>Liatris punctata</i>                           | Locally common                                                      | Late summer to fall       | Perennial forb             |
| LIPO        | <i>Ligusticum porteri</i>                                             | <i>Ligusticum porteri</i>                         | Locally common                                                      | Mid- to late summer       | Perennial forb             |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i>                      | <i>Lilium umbellatum</i>                          | Rare                                                                | Midsummer                 | Perennial forb             |
| LIAQ        | <i>Limosella aquatica</i>                                             | <i>Limosella aquatica</i>                         | Locally common                                                      | Spring                    | Annual or Perennial forb   |
| LIVU2       | <i>Linaria vulgaris</i>                                               | <i>Linaria vulgaris</i>                           | Not common                                                          | Midsummer to fall         | Perennial forb             |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>                            | <i>Linum aristatum</i> var. <i>australe</i>       | See Pilz et al. (1979)                                              | Spring to fall            | Annual forb                |
| LILE3       | <i>Linum lewisii</i>                                                  | <i>Linum lewisii</i>                              | Locally common                                                      | Early summer to fall      | Perennial forb             |
| LINE        | <i>Linum neomexicanum</i>                                             | <i>Linum neomexicana</i>                          | Locally common                                                      | Spring to midsummer       | Perennial forb             |
| LIPU4       | <i>Linum puberulum</i>                                                | <i>Linum puberulum</i>                            | See Herbarium, Bandelier National Monument; Foxx and Tierney (1985) | Spring and mid summer     | Annual forb                |
| LIRI        | <i>Linum rigidum</i>                                                  | <i>Linum rigidum</i> "complex"                    | Locally Abundant                                                    |                           |                            |
| LICO7       | <i>Lithospermum cobrense</i>                                          | <i>Lithospermum cobrense</i>                      | See Robertson (1968)                                                | Early to late summer      | Biennial or Perennial      |
| LIIN2       | <i>Lithospermum incisum</i>                                           | <i>Lithospermum incisum</i>                       | Not common                                                          | Spring                    | Perennial forb             |
| LIMU3       | <i>Lithospermum multiflorum</i>                                       | <i>Lithospermum multiflorum</i>                   | Not common                                                          | Late summer to fall       | Perennial forb             |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>                        | <i>Lobelia cardinalis</i> subsp. <i>graminae</i>  | Locally common                                                      | Late summer to fall       | Perennial forb             |
| LOPE        | <i>Lolium perenne</i>                                                 | <i>Lolium perenne</i>                             | Locally common                                                      | Spring to early summer    | Perennial grass            |
| LOIN5       | <i>Lonicera involucrata</i>                                           | <i>Lonicera involucrata</i>                       | Not common                                                          | Early to midsummer        | Shrub                      |
| LOWR        | <i>Lotus wrightii</i>                                                 | <i>Lotus wrightii</i>                             | Common                                                              | Mid- to late summer       | Perennial forb             |
| LUAL5       | <i>Lupinus X alpestris</i>                                            | <i>Lupinus alpestris</i>                          | See Pilz et al. (1979)                                              | Early to late summer      | Perennial forb             |
| LUAM        | <i>Lupinus ammophilus</i>                                             | <i>Lupinus ammophilus</i>                         | See Osborne (1966)                                                  | Spring to early summer    | Perennial forb             |
| LUAR3       | <i>Lupinus argenteus</i>                                              | <i>Lupinus argenteus</i>                          | See Pilz et al. (1979)                                              | Spring to fall            | Perennial forb             |
| LUBR2       | <i>Lupinus brevicaulis</i>                                            | <i>Lupinus brevicaulis</i>                        | Occasional                                                          |                           |                            |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                       | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> | Locally common                                                      | Early to late summer      | Perennial forb             |
| LUKI        | <i>Lupinus kingii</i>                                                 | <i>Lupinus kingii</i>                             | Locally common                                                      | Early summer              | Annual forb                |
| LUPU        | <i>Lupinus pusillus</i>                                               | <i>Lupinus pusillus</i>                           | See Pilz et al. (1979)                                              | Spring to early summer    | Annual forb                |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>                      | <i>Lupinus rubricaulis</i>                        | See Pilz et al. (1979)                                              | Information not available | Perennial forb             |
| LUPA4       | <i>Luzula parviflora</i>                                              | <i>Luzula parviflora</i>                          | See Osborne (1966)                                                  | Early to late summer      | Perennial forb             |
| LYPA        | <i>Lycium pallidum</i>                                                | <i>Lycium pallidum</i>                            | Locally common                                                      | Spring                    | Shrub                      |
| LYAM        | <i>Lycopus americanus</i>                                             | <i>Lycopus americanus</i>                         | Occasional                                                          |                           |                            |
| LYPH        | <i>Lycurus phleoides</i>                                              | <i>Lycurus phleoides</i>                          | Locally common                                                      | Mid- to late summer       | Perennial grass            |
| PSAS2       | <i>Psilactis asteroides</i>                                           | <i>Machaeranthera amplifolia</i>                  | See Herbarium, Bandelier National Monument                          | Early summer to fall      | Biennial or Perennial forb |
| MABI        | <i>Machaeranthera bigelovii</i>                                       | <i>Machaeranthera bigelovii</i>                   | Locally abundant                                                    | Fall                      | Annual or biennial forb    |
| MACA2       | <i>Machaeranthera canescens</i>                                       | <i>Machaeranthera canescens</i>                   | Occasional                                                          |                           |                            |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i> | <i>Machaeranthera linearis</i>                    | See Pilz et al. (1979)                                              | Late summer to fall       | Biennial or Perennial forb |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                         | Martin and Hutchins (1980)                         | Occurrence                                 | Blooms                 | Habit                      |
|-------------|--------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------|------------------------|----------------------------|
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>                | Locally common                             | Late summer to fall    | Annual forb                |
| MACA12      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                    | See Pilz et al. (1979)                     | Spring to fall         | Biennial forb              |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                        | See Herbarium, Bandelier National Monument | Spring to early summer | Annual forb                |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                              | Not common                                 | Late summer to fall    | Perennial forb             |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                             | Locally common                             | Spring to fall         | Annual or biennial forb    |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                            | Locally common                             | Early summer to fall   | Annual forb                |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                        | See Barnes (1983)                          | Late summer to fall    | Perennial forb             |
| MAVU        | <i>Marrubium vulgare</i>                                                 | <i>Marrubium vulgare</i>                           | Not common                                 | Early summer to fall   | Perennial forb             |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                       | <i>Maurandya antirrhiniflora</i>                   | Not common                                 | Early summer           | Shrub                      |
| MELU        | <i>Medicago lupulina</i>                                                 | <i>Medicago lupulina</i>                           | Locally common                             | Early summer           | Annual forb                |
| MESA        | <i>Medicago sativa</i>                                                   | <i>Medicago sativa</i>                             | Common                                     | Early to late summer   | Perennial forb             |
| MELE2       | <i>Melampodium leucanthum</i>                                            | <i>Melampodium leucanthum</i>                      | Locally common                             | Early summer to fall   | Perennial forb             |
| MEPO        | <i>Melica porteri</i>                                                    | <i>Melica porteri</i>                              | Not common                                 | Mid- to late summer    | Perennial grass            |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus albus</i>                             | Locally common to abundant                 | Mid- to late summer    | Annual or biennial forb    |
| MEIN2       | <i>Melilotus indicus</i>                                                 | <i>Melilotus indicus</i>                           | Not common                                 | Spring to fall         | Annual forb                |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus officinalis</i>                       | Locally common to abundant                 | Midsummer to fall      | Annual or Perennial forb   |
| MESC        | <i>Menodora scabra</i>                                                   | <i>Menodora scabra</i>                             | Occasional                                 |                        |                            |
| MEAR4       | <i>Mentha arvensis</i>                                                   | <i>Mentha arvensis</i>                             | Locally common                             | Early summer to fall   | Perennial forb             |
| MEAL6       | <i>Mentzelia albicaulis</i>                                              | <i>Mentzelia albicaulis</i>                        | Not common                                 | Spring to midsummer    | Annual forb                |
| MELA        | <i>Mentzelia laciniata</i>                                               | <i>Mentzelia laciniata</i>                         | See Herbarium, Bandelier National Monument | Spring to midsummer    | Biennial or Perennial forb |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>                                | <i>Mentzelia nuda</i> var. <i>stricta</i>          | See Housley (1974)                         | Early to late summer   | Perennial forb             |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>                               | <i>Mentzelia pumila</i> var. <i>integra</i>        | See Pilz et al. (1979)                     | Early summer to fall   | Biennial forb              |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>                          | <i>Mentzelia pumila</i> var. <i>multiflora</i>     | Locally common                             | Spring to fall         | Biennial forb              |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                       | <i>Mentzelia pumila</i> var. <i>pumila</i>         | Common                                     | Early to late summer   | Biennial forb              |
| MERU        | <i>Mentzelia rusbyi</i>                                                  | <i>Mentzelia rusbyi</i>                            | See Foxx and Tierney (1985)                | Midsummer to fall      | Biennial forb              |
| MEBR        | <i>Mertensia brevistyla</i>                                              | <i>Mertensia brevistyla</i>                        | Not common                                 | Late summer to fall    | Perennial forb             |
| MEFR2       | <i>Mertensia franciscana</i>                                             | <i>Mertensia franciscana</i>                       | Not common                                 | Midsummer              | Perennial forb             |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i>                          | <i>Mertensia lanceolata</i> var. <i>fendleri</i>   | Common                                     | Spring to early summer | Perennial forb             |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                       | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | Ubiquitous                                 | Early summer to fall   | Perennial forb             |
| URLI2       | <i>Uropappus linearifolius</i>                                           | <i>Microseris linearifolia</i>                     | Not common                                 | Spring                 | Annual forb                |
|             |                                                                          | <i>Microseris minimus</i>                          | Not common                                 | Spring                 | Perennial forb             |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                               | <i>Microsteris gracilis</i>                        | Occasional                                 |                        |                            |
| MIFL2       | <i>Mimulus floribundus</i>                                               | <i>Mimulus floribundus</i>                         | Locally common                             | Spring to midsummer    | Annual forb                |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                             | <i>Mimulus glabratus</i> var. <i>fremontii</i>     | See Herbarium, Bandelier National Monument | Spring to midsummer    | Perennial forb             |

# **OCCURRENCE CON'T**

| USDA Symbol | USDA NRCS PLANTS                                                       | Martin and Hutchins (1980)                        | Occurrence                                 | Blooms               | Habit                   |
|-------------|------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------|----------------------|-------------------------|
| MIGU        | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                           | Locally common                             | Midsummer            | Perennial forb          |
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                         | See Robertson (1968)                       | Mid- to late summer  | Perennial forb          |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                       | Common                                     | Mid- to late summer  | Perennial forb          |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                     | Not common                                 | Mid- to late summer  | Perennial forb          |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                       | Not common                                 | Early summer to fall | Annual or biennial forb |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                       | Locally common                             | Midsummer to fall    | Perennial forb          |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                          | Locally common                             | Midsummer            | Annual forb             |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                       | Not common                                 | Late summer          | Perennial forb          |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                       | See Barnes (1983)                          | Late summer to fall  | Perennial grass         |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                   | See Herbarium, Bandelier National Monument | Early summer         | Perennial grass         |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                    | See Robertson (1968)                       | Mid- to late summer  | Perennial grass         |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                      | Not common                                 | Early to late summer | Perennial grass         |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                       | Ubiquitous                                 | Late summer to fall  | Perennial grass         |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                    | See Robertson (1968)                       | Mid- to late summer  | Perennial grass         |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                       | See Robertson (1968)                       | Mid- to late summer  | Perennial grass         |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                   | See Foxx and Tierney (1985)                | Mid- to late summer  | Perennial grass         |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                      | See Robertson (1968)                       | Mid- to late summer  | Perennial grass         |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                        | Locally Abundant                           |                      |                         |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia torreyi</i>                       | Common                                     | Midsummer to fall    | Perennial grass         |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolfii</i>                        | Occasional                                 |                      |                         |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                      | Not common                                 | Midsummer to fall    | Perennial grass         |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                           | Locally common                             | Late summer to fall  | Perennial grass         |
|             |                                                                        | <i>Myosurus minimus</i>                           | Not common                                 | Spring               | Annual forb             |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                            | Not common                                 | Late summer to fall  | Annual forb             |
| NAHI        | <i>Nama hispidum</i>                                                   | <i>Nama hispidum</i> var. <i>hispidum</i>         | Not common                                 | Early summer to fall | Annual forb             |
| NECA2       | <i>Nepeta cataria</i>                                                  | <i>Nepeta cataria</i>                             | See Robertson (1968)                       | Late summer to fall  | Perennial forb          |
| NIAT        | <i>Nicotiana attenuata</i>                                             | <i>Nicotiana attenuata</i>                        | See Pilz et al. (1979)                     | Spring to fall       | Perennial forb          |
| NOMI        | <i>Nolina microcarpa</i>                                               | <i>Nolina microcarpa</i>                          | Locally abundant                           |                      |                         |
| NOTHO       | <i>Notholaena</i>                                                      | <i>Notholaena</i> spp.                            | See Barnes (1983)                          | Not applicable       | Perennial forb          |
| NOST        | <i>Notholaena standleyi</i>                                            | <i>Notholaena standleyi</i>                       | Locally Abundant                           |                      |                         |
| OEAL        | <i>Oenothera albicaulis</i>                                            | <i>Oenothera albicaulis</i>                       | Common                                     | Early summer to fall | Annual forb             |
| OECE2       | <i>Oenothera cespitosa</i>                                             | <i>Oenothera caespitosa</i>                       | Not common                                 | Mid- to late summer  | Perennial forb          |
| OECEM3      | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i>                    | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>  | See Foxx and Tierney (1985)                | Spring to fall       | Perennial forb          |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>                       | <i>Oenothera caespitosa</i> subsp. <i>montana</i> | See Pilz et al. (1979)                     | Spring to fall       | Perennial forb          |
| OECO2       | <i>Oenothera coronopifolia</i>                                         | <i>Oenothera coronopifolia</i>                    | Not common                                 | Earl to late summer  | Perennial forb          |
| OEFL        | <i>Oenothera flava</i>                                                 | <i>Oenothera flava</i>                            | See Pilz et al. (1979)                     | Spring to fall       | Perennial forb          |



## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                         | Occurrence                                 | Blooms                      | Habit                    |
|-------------|-------------------------------------------------------------|----------------------------------------------------|--------------------------------------------|-----------------------------|--------------------------|
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>                  | <i>Oenothera hookeri</i>                           | Not common                                 | Mid- to late summer         | Biennial forb            |
| OELA        | <i>Oenothera laciniata</i>                                  | <i>Oenothera laciniata</i> var. <i>laciniata</i>   | See Housley (1974)                         | Spring to fall              | Annual or Perennial forb |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>                | <i>Oenothera pallida</i> subsp. <i>pallida</i>     | See Herbarium, Bandelier National Monument | Mid- to late summer         | Perennial forb           |
| OEPR        | <i>Oenothera primiveris</i>                                 | <i>Oenothera primiveris</i>                        | See Foxx and Tierney (1985)                | Spring                      | Annual forb              |
| OPCL        | <i>Opuntia clavata</i>                                      | <i>Opuntia clavata</i>                             | Locally common                             | Spring to early summer      | Perennial forb           |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>                | <i>Opuntia erinacea</i> var. <i>erinacea</i>       | Not common                                 | Spring to early summer      | Perennial forb           |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>               | <i>Opuntia erinacea</i> var. <i>utahensis</i>      | Not common                                 | Spring to early summer      | Perennial forb           |
| OPIM        | <i>Opuntia imbricata</i>                                    | <i>Opuntia imbricata</i>                           | Locally common                             | Early spring                | Perennial forb           |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>            | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   | Not common                                 | Spring to early summer      | Perennial forb           |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>          | <i>Opuntia phaeacantha</i> var. <i>discata</i>     | Not common                                 | Spring to early summer      | Perennial forb           |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>          | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> | Locally common                             | Spring to early summer      | Perennial forb           |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>          | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | Locally common                             | Late spring to early summer | Perennial forb           |
| ORFA        | <i>Orobanche fasciculata</i>                                | <i>Orobanche fasciculata</i> var. <i>lutea</i>     | Not common                                 | Spring to early summer      | Perennial forb           |
| ORLU        | <i>Orobanche ludoviciana</i>                                | <i>Orobanche ludoviciana</i>                       | Occasional                                 |                             |                          |
| ORLUM       | <i>Orobanche ludoviciana</i> ssp. <i>multiflora</i>         | <i>Orobanche multiflora</i>                        | Not common                                 | Spring to early summer      | Perennial forb           |
| ORLU2       | <i>Orthocarpus luteus</i>                                   | <i>Orthocarpus luteus</i>                          | Common                                     | Late summer                 | Annual forb              |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                            | <i>Orthocarpus purpureo-albus</i>                  | Common                                     | Mid- to late summer         | Annual forb              |
| ORAS        | <i>Oryzopsis asperifolia</i>                                | <i>Oryzopsis asperifolia</i>                       | Not common                                 | Early summer                | Perennial grass          |
| ACHY        | <i>Achnatherum hymenoides</i>                               | <i>Oryzopsis hymenoides</i>                        | Locally common                             | Mid- to late summer         | Perennial grass          |
| PIMI7       | <i>Piptatherum micranthum</i>                               | <i>Oryzopsis micrantha</i>                         | See Barnes (1983)                          | Early to midsummer          | Perennial grass          |
| OSDE        | <i>Osmorhiza depauperata</i>                                | <i>Osmorhiza obtusa</i>                            | Not common                                 | Spring                      | Perennial forb           |
| OXAL2       | <i>Oxalis alpina</i>                                        | <i>Oxalis metcalfei</i>                            | See Robertson (1968); Osborne (1966)       | Midsummer to fall           | Perennial forb           |
| OXVI        | <i>Oxalis violacea</i>                                      | <i>Oxalis violacea</i>                             | Locally common                             | Midsummer                   | Perennial forb           |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                          | See Housley (1979)                         | Early summer to late fall   | Perennial forb           |
| MILI3       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i>     | Not common                                 | Midsummer                   | Perennial forb           |
| OXFE        | <i>Oxypolis fendleri</i>                                    | <i>Oxypolis fendleri</i>                           | See Robertson (1968); Pilz et al. (1979)   | Early to late summer        | Perennial forb           |
| OXLA3       | <i>Oxytropis lambertii</i>                                  | <i>Oxytropis lambertii</i>                         | Occasional                                 |                             |                          |
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                       | Locally common                             | Spring                      | Underbrush               |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                            | Locally abundant                           |                             |                          |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i>     | Locally common                             | Early summer                | Annual grass             |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                              | Occasional                                 |                             |                          |
| DIOLS       | <i>Dichanthelium oligosanthos</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                             | See Herbarium, Bandelier National Monument | Early summer                | Perennial grass          |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                               | Occurrence                                 | Blooms                 | Habit                   |
|-------------|-------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------|------------------------|-------------------------|
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                                 | Not common                                 | Midsummer to fall      | Annual grass            |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                                   | Not common                                 | Early summer           | Perennial grass         |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                             | See Robertson (1968)                       | Midsummer to fall      | Perennial grass         |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                              | Rare                                       | Early summer           | Perennial grass         |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                                  | Not common                                 | Midsummer to fall      | Perennial grass         |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                                | Occasional                                 |                        |                         |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                            | Not common                                 | Spring                 | Vine                    |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                               | See Herbarium, Bandelier National Monument | Midsummer to fall      | Annual forb             |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                                    | Not common                                 | Early summer to fall   | Annual forb             |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                                 | Locally common                             | Mid- to late summer    | Perennial forb          |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                         | Locally common                             | Spring                 | Perennial forb          |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                              | Locally common                             | Not applicable         | Perennial forb          |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                                  | Common                                     | Not applicable         | Perennial forb          |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                                 | Locally common                             | Not applicable         | Perennial forb          |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                            | See Robertson (1968)                       | Not applicable         | Perennial forb          |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>          | Common                                     | Late summer            | Perennial forb          |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                                 | See Housley (1974)                         | Spring                 | Perennial               |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                                | See Robertson (1968)                       | Spring to early summer | Perennial forb          |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                                 | Not common                                 | Spring                 | Perennial forb          |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                                  | See Foxx and Tierney (1985)                | Spring to early summer | Perennial forb          |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>      | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> | See Housley (1974)                         | Early to midsummer     | Perennial forb          |
| PEOL        | <i>Penstemon oliganthus</i>                                 | <i>Penstemon oliganthus</i>                              | See Foxx and Tierney (1985)                | Early to late summer   | Perennial forb          |
| PERY        | <i>Penstemon rydbergii</i>                                  | <i>Penstemon rydbergii</i>                               | See Osborne (1966)                         | Mid- to late summer    | Perennial forb          |
| PESE11      | <i>Penstemon secundiflorus</i>                              | <i>Penstemon secundiflorus</i>                           | Locally common                             | Spring to early summer | Perennial forb          |
| PEVI4       | <i>Penstemon virgatus</i>                                   | <i>Penstemon virgatus</i>                                | Locally common                             | Mid- to late summer    | Perennial forb          |
| PEWH        | <i>Penstemon whippleanus</i>                                | <i>Penstemon whippleanus</i>                             | Not common                                 | Late summer            | Perennial forb          |
| PECA10      | <i>Pericome caudata</i>                                     | <i>Pericome caudata</i>                                  | Locally common                             | Late summer to fall    | Perennial forb          |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                    | <i>Petalostemum candidum</i>                             | Locally common                             | Late summer            | Perennial forb          |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                  | <i>Petalostemum compactum</i>                            | Not common                                 | Late summer            | Perennial forb          |
| DAEX2       | <i>Dalea exigua</i>                                         | <i>Petalostemum exile</i>                                | Not common                                 | Early summer           | Perennial forb          |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                  | <i>Petalostemum purpureum</i>                            | Not common                                 | Midsummer              | Perennial forb          |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                    | <i>Petalostemum villosum</i>                             | See Foxx and Tierney (1985)                | Late summer to fall    | Perennial forb          |
| PHCO        | <i>Phacelia coerulea</i>                                    | <i>Phacelia coerulea</i>                                 | Occasional                                 |                        |                         |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>             | <i>Phacelia corrugata</i>                                | Locally common                             | Spring to fall         | Annual or biennial forb |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                                | Occurrence                                  | Blooms                 | Habit                             |
|-------------|-----------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------|------------------------|-----------------------------------|
| PHHE2       | <i>Phacelia heterophylla</i>                              | <i>Phacelia heterophylla</i>                              | Not common                                  | Spring to fall         | Perennial forb                    |
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              | Not common                                  | Spring to fall         | Annual forb                       |
| PHEG        | <i>Phacelia egea</i>                                      | <i>Phacelia magellanica</i>                               | See Osborne (1966)                          | Spring to fall         | Biennial or short-lived Perennial |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       | See Pilz et al. (1979)                      | Spring to fall         | Annual forb                       |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            | Not common                                  | Spring to late summer  | Perennial forb                    |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              | See Foxx and Tierney (1985)                 | Midsummer to fall      | Annual forb                       |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | Not common                                  | Late summer            | Shrub                             |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     | See Osborne (1966); Foxx and Tierney (1985) | Early summer           | Perennial forb                    |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    | Locally common                              | Early summer           | Perennial grass                   |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   | See Pilz et al. (1979)                      | Spring to early summer | Perennial forb                    |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             | Common                                      | Midsummer to fall      | Parasite                          |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                | Occasional                                  |                        |                                   |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           | Locally common                              | Midsummer              | Annual forb                       |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        | Not common                                  | Spring to fall         | Perennial forb                    |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 | See Robertson (1968)                        | Late summer to fall    | Annual forb                       |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               | Locally common                              | Early to midsummer     | Shrub                             |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | In pure stands at high elevations           | Early spring           | Tree                              |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | Scattered                                   | Early spring           | Tree                              |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | Dominant species at intermediate elevations | Late spring            | Tree                              |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     | Not common, scattered                       | Spring                 | Tree                              |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | In pure stands between 7000-8000 ft         | Spring                 | Tree                              |
| PLAR2       | <i>Plantago argyraea</i>                                  | <i>Plantago argyraea</i>                                  | See Pilz et al. (1979)                      | Spring to fall         | Annual forb                       |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     | Not common                                  | Mid- to late summer    | Annual or biennial forb           |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   | Common                                      | Early to midsummer     | Annual herb                       |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          | Not common                                  | Early summer           | Annual grass                      |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      | See Robertson (1968); Pilz et al. (1979)    | Spring                 | Annual grass                      |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      | Pilz et al. (1979)                          | Early summer           | Perennial grass                   |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    | Common                                      | Spring to early summer | Perennial grass                   |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       | Common                                      | Early to late summer   | Perennial forb                    |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    | See Osborne (1966)                          | Spring to midsummer    | Perennial grass                   |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     | See Foxx and Tierney (1985)                 | Mid- to late summer    | Perennial grass                   |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      | See Robertson (1968)                        | Spring to late summer  | Perennial grass                   |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    | See Foxx and Tierney (1985)                 | Mid- to late summer    | Perennial                         |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | Locally common                              | Early summer to fall   | Perennial grass                   |

# **OCCURRENCE CON'T**

| <b>USDA Symbol</b> | <b>USDA NRCS PLANTS</b>                                   | <b>Martin and Hutchins (1980)</b>                         | <b>Occurrence</b>                      | <b>Blooms</b>          | <b>Habit</b>             |
|--------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------|------------------------|--------------------------|
| PODOT              | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             | Not common                             | Midsummer to fall      | Annual forb              |
| POFOF3             | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | Not common                             | Early summer to fall   | Perennial forb           |
| POAMS              | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | Not common                             | Late summer to fall    | Perennial forb           |
| POAV               | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                | Locally common                         | Mid- to late summer    | Annual forb              |
| POBI6              | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             | Locally abundant                       |                        |                          |
| POCO10             | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              | Not common                             | Spring to late summer  | Annual forb              |
| PODO4              | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                | See Pilz et al. (1979)                 | Early summer to fall   | Annual forb              |
| PODOD4             | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>          | <i>Polygonum montanum</i>                                 | Occasional                             |                        |                          |
| POPE3              | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                               | Locally common                         | Mid- to late summer    | Annual forb              |
| PORA3              | <i>Polygonum ramosissimum</i>                             | <i>Polygonum ramosissimum</i>                             | Locally common                         | Mid- to late summer    | Annual forb              |
| PODOJ2             | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i>         | <i>Polygonum sawatchense</i>                              | See Pilz et al. (1979)                 | Early to late summer   | Annual forb              |
| POMO5              | <i>Polypogon monspeliensis</i>                            | <i>Polypogon monspeliensis</i>                            | Not common                             | Spring to fall         | Annual grass             |
| POAN3              | <i>Populus angustifolia</i>                               | <i>Populus angustifolia</i>                               | Locally common                         | Spring                 | Tree                     |
| PODEW              | <i>Populus deltoides</i> ssp. <i>wislizeni</i>            | <i>Populus fremontii</i> var. <i>wislizenii</i>           | Common                                 | Spring                 | Tree                     |
| POTR5              | <i>Populus tremuloides</i>                                | <i>Populus tremuloides</i> var. <i>aurea</i>              | Common to locally abundant             | Spring                 | Tree                     |
| POOL               | <i>Portulaca oleracea</i>                                 | <i>Portulaca oleracea</i>                                 | Locally common                         | Midsummer to fall      | Annual forb              |
| ARAN7              | <i>Argentina anserina</i>                                 | <i>Potentilla anserina</i>                                | Locally common                         | Mid- to late summer    | Perennial forb           |
| POARC              | <i>Potentilla arguta</i> ssp. <i>convallaria</i>          | <i>Potentilla arguta</i> subsp. <i>convallaria</i>        | See Robertson (1968)                   | Early to midsummer     | Perennial forb           |
| POCO13             | <i>Potentilla concinna</i>                                | <i>Potentilla concinna</i>                                | See Osborne (1966)                     | Spring to early summer | Perennial forb           |
| POCR4              | <i>Potentilla crinita</i>                                 | <i>Potentilla crinita</i>                                 | See Foxx and Tierney (1985)            | Spring to fall         | Perennial forb           |
| PEFL15             | <i>Pentaphylloides floribunda</i>                         | <i>Potentilla fruticosa</i>                               | Locally common                         | Early summer to fall   | Shrub                    |
| POHI6              | <i>Potentilla hippiana</i>                                | <i>Potentilla hippiana</i>                                | Not common                             | Mid- to late summer    | Perennial forb           |
| PONO3              | <i>Potentilla norvegica</i>                               | <i>Potentilla norvegica</i>                               | Locally common                         | Mid- to late summer    | Annual or Perennial forb |
| POPE8              | <i>Potentilla pennsylvanica</i>                           | <i>Potentilla pennsylvanica</i>                           | See Housley (1974); Pilz et al. (1979) | Early to late summer   | Perennial forb           |
| POPU9              | <i>Potentilla pulcherrima</i>                             | <i>Potentilla pulcherrima</i>                             | Common                                 | Early summer to fall   | Perennial forb           |
| POTHT              | <i>Potentilla thurberi</i> var. <i>thurberi</i>           | <i>Potentilla thurberi</i> var. <i>thurberi</i>           | See Robertson (1968)                   | Midsummer to fall      | Perennial forb           |
| PRRU               | <i>Primula rusbyi</i>                                     | <i>Primula rusbyi</i>                                     | See Osborne (1966)                     | Early to late summer   | Perennial forb           |
| PRVU               | <i>Prunella vulgaris</i>                                  | <i>Prunella vulgaris</i>                                  | Locally common                         | Mid- to late summer    | Perennial forb           |
| PRAM               | <i>Prunus americana</i>                                   | <i>Prunus americana</i>                                   | Not common                             | Spring                 | Shrub or tree            |
| PREME              | <i>Prunus emarginata</i> var. <i>emarginata</i>           | <i>Prunus emarginata</i> var. <i>emarginata</i>           | See Foxx and Tierney (1985)            | Spring                 | Shrub                    |
| PRVIM              | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          | Locally common                         | Spring to early summer | Shrub or small trees     |
| PSMO               | <i>Pseudocymopterus montanus</i>                          | <i>Pseudocymopterus montanus</i>                          | Ubiquitous                             | Early to late summer   | Perennial forb           |
| PSMEG              | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | Locally common                         | Spring                 | Tree                     |
| PSTA               | <i>Psilotrophe tagetina</i>                               | <i>Psilotrophe tagetina</i>                               | Not common                             | Spring to fall         | Perennial forb           |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                            | Occurrence                                 | Blooms                 | Habit                |
|-------------|-----------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------|----------------------|
| PEHYH       | <i>Pedimelum hypogaeum</i> var. <i>hypogaeum</i>          | <i>Psoralea hypogaea</i>                              | See Herbarium, Bandelier National Monument | Spring to midsummer    | Perennial forb       |
| PSLA3       | <i>Psoralidium lanceolatum</i>                            | <i>Psoralea lanceolata</i>                            | See Pilz et al. (1979); Housley (1974)     | Spring to fall         | Perennial forb       |
| PSTE5       | <i>Psoralidium tenuiflorum</i>                            | <i>Psoralea tenuiflora</i>                            | See Pilz et al. (1979); Housley (1974)     | Spring to fall         | Perennial forb       |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>         | <i>Ptelea trifoliata</i> susp <i>angustifolia</i>     | Not common                                 | Spring                 | Shrub or small trees |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>          | <i>Pteridium aquilinum</i> var. <i>pubescens</i>      | Common                                     | Not applicable         | Perennial forb       |
| PTAN2       | <i>Pterospora andromedea</i>                              | <i>Pterospora andromedea</i>                          | Not common                                 | Spring                 | Perennial forb       |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>            | <i>Pulsatilla ludoviciana</i>                         | Not common or locally common               | Spring                 | Perennial forb       |
| PUTR2       | <i>Purshia tridentata</i>                                 | <i>Purshia tridentata</i>                             | Rare                                       | Early summer           | Shrub                |
| PYAS        | <i>Pyrola asarifolia</i>                                  | <i>Pyrola asarifolia</i>                              | Occasional                                 |                        |                      |
| PYCH        | <i>Pyrola chlorantha</i>                                  | <i>Pyrola chlorantha</i>                              | Locally common                             | Mid- to late summer    | Perennial forb       |
| PYEL        | <i>Pyrola elliptica</i>                                   | <i>Pyrola elliptica</i>                               | See Robertson (1968)                       | Midsummer to fall      | Perennial forb       |
| PYMI        | <i>Pyrola minor</i>                                       | <i>Pyrola minor</i>                                   | Locally common                             | Mid- to late summer    | Perennial forb       |
| PYPI2       | <i>Pyrola picta</i>                                       | <i>Pyrola picta</i>                                   | Occasional                                 |                        |                      |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       | Occasional                                 |                        |                      |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               | Ubiquitous                                 | Spring                 | Shrub to small tree  |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 | Common                                     | Spring                 | Shrub                |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                | See Herbarium, Bandelier National Monument | Spring                 | Shrub                |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             | See Appendix; Robertson (1968)             | Spring                 | Shrub or small tree  |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               | Common                                     | Spring                 | Shrub                |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              | Locally common                             | Mid- to late summer    | Perennial forb       |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           | Occasional                                 |                        |                      |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   | Locally common                             | Spring to early summer | Perennial forb       |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       | Locally common                             | Mid- to late summer    | Perennial forb       |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> | Not common                                 | Spring to summer       | Perennial forb       |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           | Locally common                             | Mid- to late summer    | Perennial forb       |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            | Locally common                             | summer to fall         | Perennial forb       |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          | See Robertson (1968)                       | Early to late summer   | Perennial forb       |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   | Occasional                                 |                        |                      |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           | Locally common                             | Mid- to late summer    | Perennial forb       |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               | Locally common                             | Late summer            | Perennial forb       |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    | See Robertson (1968)                       | Early summer           | Shrub                |

# **OCCURRENCE CON'T**

| <b>USDA Symbol</b> | <b>USDA NRCS PLANTS</b>                            | <b>Martin and Hutchins (1980)</b>              | <b>Occurrence</b>                           | <b>Blooms</b>             | <b>Habit</b>            |
|--------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------|---------------------------|-------------------------|
| TORAR              | <i>Toxicodendron radicans</i> ssp. <i>radicans</i> | <i>Rhus radicans</i>                           | Common                                      | Early spring              | Shrub                   |
| RHTR               | <i>Rhus trilobata</i>                              | <i>Rhus trilobata</i>                          | Common                                      | Early spring              | Shrub                   |
| RICE               | <i>Ribes cereum</i>                                | <i>Ribes cereum</i>                            | Common                                      | Early spring to midsummer | Shrub                   |
| RICEP              | <i>Ribes cereum</i> var. <i>pedicellare</i>        | <i>Ribes inebrians</i>                         | Locally common                              | Early to midsummer        | Shrub                   |
| RIIN2              | <i>Ribes inerme</i>                                | <i>Ribes inerme</i>                            | See Osborne (1966); Foxx and Tierney (1985) | Spring                    | Shrub                   |
| RILE               | <i>Ribes leptanthum</i>                            | <i>Ribes leptanthum</i>                        | Not common                                  | Spring                    | Shrub                   |
| RIMO2              | <i>Ribes montigenum</i>                            | <i>Ribes montigenum</i>                        | See Osborne (1966); Foxx and Tierney (1985) | Early to late summer      | Shrub                   |
| RIPI               | <i>Ribes pinetorum</i>                             | <i>Ribes pinetorum</i>                         | See Pilz et al. (1979)                      | Spring                    | Shrub                   |
| RIWO               | <i>Ribes wolfii</i>                                | <i>Ribes wolfii</i>                            | Not common                                  | Early summer              | Shrub                   |
| RONE               | <i>Robinia neomexicana</i>                         | <i>Robinia neomexicana</i>                     | Common                                      | Spring to midsummer       | Shrub                   |
| ROIS2              | <i>Rorippa islandica</i>                           | <i>Rorippa islandica</i>                       | See Pilz et al. (1979)                      | Spring to midsummer       | Annual to biennial forb |
| RONA2              | <i>Rorippa nasturtium-aquaticum</i>                | <i>Rorippa nasturtium-aquaticum</i>            | Common                                      | Spring to fall            | Perennial forb          |
| ROTE2              | <i>Rorippa teres</i>                               | <i>Rorippa obtusa</i>                          | See Robertson (1968)                        | Midsummer to fall         | Annual forb             |
| ROPAF2             | <i>Rorippa palustris</i> ssp. <i>fernaldiana</i>   | <i>Rorippa palustris</i> subsp. <i>glabra</i>  | Locally Abundant                            |                           |                         |
| ROPAH              | <i>Rorippa palustris</i> ssp. <i>hispida</i>       | <i>Rorippa palustris</i> subsp. <i>hispida</i> | Occasional                                  |                           |                         |
| ROS12              | <i>Rorippa sinuata</i>                             | <i>Rorippa sinuata</i>                         | See Pilz et al. (1979)                      | Spring to midsummer       | Perennial forb          |
| ROSY               | <i>Rorippa sylvestris</i>                          | <i>Rorippa sylvestris</i>                      | See Robertson (1968)                        | Early summer to fall      | Perennial forb          |
| ROCUT              | <i>Rorippa curvipes</i> var. <i>truncata</i>       | <i>Rorippa truncata</i>                        | Locally abundant                            |                           |                         |
| RONU               | <i>Rosa nutkana</i>                                | <i>Rosa nutkana</i>                            | See Herbarium, Bandelier National Monument  | Early summer              | Shrub                   |
| ROWOW              | <i>Rosa woodsii</i> var. <i>woodsii</i>            | <i>Rosa woodsii</i> var. <i>arizonica</i>      | See Osborne (1966)                          | Spring to midsummer       | Shrub                   |
| ROWOW              | <i>Rosa woodsii</i> var. <i>woodsii</i>            | <i>Rosa woodsii</i> var. <i>fendleri</i>       | Not common to locally common                | Early to late summer      | Shrub                   |
| RUPA               | <i>Rubus parviflorus</i>                           | <i>Rubus parviflorus</i>                       | Common                                      | Early to late summer      | Shrub                   |
| RUIDS2             | <i>Rubus idaeus</i> ssp. <i>strigosus</i>          | <i>Rubus strigosus</i> var. <i>arizonicus</i>  | Locally common                              | Spring to midsummer       | Shrub                   |
| RUH12              | <i>Rudbeckia hirta</i>                             | <i>Rudbeckia hirta</i>                         | Locally common                              | Mid- to late summer       | Perennial forb          |
| RULA3              | <i>Rudbeckia laciniata</i>                         | <i>Rudbeckia laciniata</i>                     | Locally common                              | Mid- to late summer       | Perennial forb          |
| RUAC3              | <i>Rumex acetosella</i>                            | <i>Rumex acetosella</i>                        | Locally common                              | Spring to late summer     | Perennial forb          |
| RUCR               | <i>Rumex crispus</i>                               | <i>Rumex crispus</i>                           | Locally common                              | Spring to fall            | Perennial forb          |
| RUSAM              | <i>Rumex salicifolius</i> var. <i>mexicanus</i>    | <i>Rumex mexicanus</i>                         | Not common                                  | Early summer to fall      | Perennial forb          |
| RUAQF              | <i>Rumex aquaticus</i> var. <i>fenestratus</i>     | <i>Rumex occidentalis</i>                      | See Osborne (1966)                          | Early summer to fall      | Perennial forb          |
| RUPA5              | <i>Rumex patientia</i>                             | <i>Rumex patientia</i>                         | Locally Abundant                            |                           |                         |
| RUSAM              | <i>Rumex salicifolius</i> var. <i>mexicanus</i>    | <i>Rumex triangulivalvis</i>                   | Locally common                              | Early summer              | Perennial forb          |
| SABE2              | <i>Salix bebbiana</i>                              | <i>Salix bebbiana</i>                          | Locally common                              | Spring                    | Shrub                   |
| SALUC              | <i>Salix lucida</i> ssp. <i>caudata</i>            | <i>Salix caudata</i>                           | Locally common                              | Spring                    | Shrub                   |
| SAEX               | <i>Salix exigua</i>                                | <i>Salix exigua</i>                            | Locally common                              | Spring                    | Shrub                   |
| SAIR               | <i>Salix irrorata</i>                              | <i>Salix irrorata</i>                          | Locally common                              | Spring                    | Shrub                   |

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| USDA Symbol | USDA NRCS PLANTS                                       | Martin and Hutchins (1980)                               | Occurrence                                                 | Blooms                    | Habit                     |
|-------------|--------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|---------------------------|---------------------------|
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 | Not common                                                 | Spring                    | Shrub                     |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  | Occasional                                                 |                           |                           |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    | Locally common                                             | Late summer               | Annual forb               |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  | Occasional                                                 |                           |                           |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              | See Osborne (1966)                                         | Spring to midsummer       | Shrub                     |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              | Locally common                                             | Early summer              | Shrub                     |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                | Locally common                                             | Late summer               | Annual forb               |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             | See Robertson, 1968; Herbarium Bandelier National Monument | Early to late summer      | Perennial forb            |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           | See Pilz et al. (1979)                                     | Early to late summer      | Shrub                     |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> | Locally common                                             | Early to late summer      | Perennial forb            |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              | Locally common                                             | Spring to fall            | Perennial forb            |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         | See Foxx and Tierney (1985)                                | Early summer              | Annual grass              |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           | Locally abundant                                           |                           |                           |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           | Locally common                                             | Spring to fall            | Perennial grass           |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              | See Osborne (1966)                                         | Information not available | Perennial grass-like forb |
| SECO        | <i>Sedum cockerellii</i>                               | <i>Sedum cockerellii</i>                                 | See Osborne (1966)                                         | Early summer to fall      | Perennial forb            |
| SEAR3       | <i>Senecio arizonicus</i>                              | <i>Senecio arizonicus</i>                                | See Robertson (1968)                                       | Spring to midsummer       | Perennial forb            |
| SEAT        | <i>Senecio atratus</i>                                 | <i>Senecio atratus</i>                                   | Occasional                                                 |                           |                           |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>         | <i>Senecio bigelovii</i> var. <i>bigelovii</i>           | Locally common                                             | Late summer to fall       | Perennial forb            |
| SECR        | <i>Senecio crassulus</i>                               | <i>Senecio crassulus</i>                                 | See Foxx and Tierney (1985)                                | Mid- to late summer       | Perennial forb            |
| SECY        | <i>Senecio cymbalariaoides</i>                         | <i>Senecio cymbalariaoides</i>                           | Not common                                                 | Mid- to late summer       | Perennial forb            |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>         | <i>Senecio douglasii</i> var. <i>longilobus</i>          | Common                                                     | Spring to late summer     | Perennial forb            |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougali</i>      | <i>Senecio eremophilus</i> var. <i>macdougali</i>        | Locally common                                             | Late summer to fall       | Perennial forb            |
| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>   | <i>Senecio eurypterus</i>                                | Occasional                                                 |                           |                           |
| SEFE        | <i>Senecio fendleri</i>                                | <i>Senecio fendleri</i>                                  | Ubiquitous                                                 | Spring to early summer    | Perennial forb            |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i>  | <i>Senecio multicapitatus</i>                            | Locally common                                             | Late summer to fall       | Perennial forb            |
| SEMU3       | <i>Senecio multilobatus</i>                            | <i>Senecio multilobatus</i>                              | Not common                                                 | Mid- to late summer       | Perennial forb            |
| SENE4       | <i>Senecio neomexicanus</i>                            | <i>Senecio neomexicanus</i>                              | See Robertson (1968)                                       | Spring and fall           | Perennial forb            |
| SEPA5       | <i>Senecio pauperculus</i>                             | <i>Senecio pauperculus</i>                               | Occasional                                                 |                           |                           |
| SEPS2       | <i>Senecio pseudoaureus</i>                            | <i>Senecio pseudoaureus</i>                              | See Herbarium, Bandelier National Monument                 | Early summer to fall      | Perennial forb            |
| SESP3       | <i>Senecio spartioides</i>                             | <i>Senecio spartioides</i>                               | See Housley (1974)                                         | Early summer to fall      | Perennial forb            |
| SETR        | <i>Senecio triangularis</i>                            | <i>Senecio triangularis</i>                              | See Pilz et al. (1979)                                     | Midsummer to fall         | Perennial forb            |
| SEWE2       | <i>Senecio werneriifolius</i>                          | <i>Senecio werneriaefolius</i>                           | See Housley (1974)                                         | Spring to fall            | Perennial forb            |

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|-------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------|-------------------------|
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                               | Locally common                             | Spring to fall         | Perennial forb          |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                             | See Foxx and Tierney (1985)                | Spring to fall         | Perennial grass         |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                              | Not common                                 | Early summer to fall   | Annual grass            |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                           | Occasional                                 |                        |                         |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                                | Not common                                 | Early to late summer   | Annual grass            |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                               | Not common                                 | Late summer            | Perennial forb          |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                              | See Herbarium, Bandelier National Monument | Early to late summer   | Annual or biennial forb |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                              | See Herbarium, Bandelier National Monument | Early to late summer   | Annual forb             |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                                | Not common                                 | Late summer            | Perennial forb          |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                          | Not common                                 | Spring to fall         | Annual forb             |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                               | Occasional                                 |                        |                         |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                          | See Pilz et al. (1979)                     | Spring to midsummer    | Perennial forb          |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                          | Not common                                 | summer to fall         | Perennial forb          |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>                          | Not common                                 | Midsummer              | Perennial forb          |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystrix</i>                               | Ubiquitous                                 | Spring to early summer | Perennial grass         |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>    | <i>Smilacina racemosa</i>                             | Locally common                             | Spring to early summer | Perennial forb          |
| MAST4       | <i>Maianthemum stellatum</i>                          | <i>Smilacina stellata</i>                             | Locally common                             | Spring to early summer | Perennial forb          |
| SOAM        | <i>Solanum americanum</i>                             | <i>Solanum americanum</i>                             | See Robertson (1968)                       | Spring to fall         | Annual forb             |
| SODO        | <i>Solanum douglasii</i>                              | <i>Solanum douglasii</i>                              | See Robertson (1968)                       | Spring to fall         | Perennial forb          |
| SOEL        | <i>Solanum elaeagnifolium</i>                         | <i>Solanum elaeagnifolium</i>                         | Not common                                 | Late summer            | Perennial forb          |
| SOJA        | <i>Solanum jamesii</i>                                | <i>Solanum jamesii</i>                                | See Housley (1974)                         | Midsummer to fall      | Perennial forb          |
| SOPT3       | <i>Solanum ptychanthum</i>                            | <i>Solanum nigrum</i>                                 | See Herbarium, Bandelier National Monument | Spring to fall         | Annual forb             |
| SORO        | <i>Solanum rostratum</i>                              | <i>Solanum rostratum</i>                              | Not common                                 | Late summer            | Annual forb             |
| SOSA        | <i>Solanum sarrachoides</i>                           | <i>Solanum sarachoides</i>                            | See Pilz et al. (1979)                     | Midsummer to fall      | Annual forb             |
| SOTR        | <i>Solanum triflorum</i>                              | <i>Solanum triflorum</i>                              | See Pilz et al. (1979)                     | Spring to fall         | Annual forb             |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>         | <i>Solidago altissima</i>                             | Locally abundant                           |                        |                         |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>     | <i>Solidago canadensis</i> var. <i>canadensis</i>     | Locally common                             | Midsummer to fall      | Perennial forb          |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> | Locally abundant                           |                        |                         |
| SOMO        | <i>Solidago mollis</i>                                | <i>Solidago mollis</i>                                | Occasional                                 |                        |                         |
| SOMU        | <i>Solidago multiradiata</i>                          | <i>Solidago multiradiata</i>                          | Locally common                             | Late summer            | Perennial forb          |
| EUOC4       | <i>Euthamia occidentalis</i>                          | <i>Solidago occidentalis</i>                          | Not common                                 | Late summer            | Perennial forb          |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>          | <i>Solidago pallida</i>                               | Occasional                                 |                        |                         |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>           | <i>Solidago petradoria</i>                            | See Robertson (1968)                       | summer to fall         | Perennial forb          |
| SOVE6       | <i>Solidago velutina</i>                              | <i>Solidago sparsiflora</i>                           | Not common                                 | Late summer to fall    | Perennial forb          |



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| USDA Symbol | USDA NRCS PLANTS                                                | Martin and Hutchins (1980)                            | Occurrence                                                          | Blooms                 | Habit                  |
|-------------|-----------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------|------------------------|------------------------|
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    | Locally common                                                      | Late summer to fall    | Perennial forb         |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         | See Robertson (1968)                                                | Fall                   | Perennial forb         |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  | Not common                                                          | Midsummer              | Annual forb            |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              | Not common                                                          | Midsummer to fall      | Annual forb            |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            | Locally common                                                      | Spring to early summer | Perennial forb         |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             | Not common                                                          | Late summer to fall    | Perennial grass        |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             | Occasional                                                          |                        |                        |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> | See Herbarium, Bandelier National Monument                          | Spring to fall         | Perennial forb         |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         | Not common                                                          | Early to late summer   | Perennial forb         |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      | See Housley (1974); Herbarium, Bandelier National Monument          | Spring to fall         | Perennial forb         |
| SPIN2       | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             | Not common                                                          | Late summer            | Perennial forb         |
| SPIN3       | <i>Sphenopholis intermedia</i>                                  | <i>Sphenopholis intermedia</i>                        | See Osborne (1966)                                                  | Early to midsummer     | Perennial grass        |
| SPAI        | <i>Sporobolus airoides</i>                                      | <i>Sporobolus airoides</i>                            | See Robertson (1968)                                                | Spring to fall         | Perennial grass        |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i>             | <i>Sporobolus asper</i>                               | See Foxx and Tierney (1985)                                         | Late summer to fall    | Perennial grass        |
| SPCO4       | <i>Sporobolus contractus</i>                                    | <i>Sporobolus contractus</i>                          | Locally common                                                      | summer to fall         | Tufted Perennial grass |
| SPCR        | <i>Sporobolus cryptandrus</i>                                   | <i>Sporobolus cryptandrus</i>                         | Common                                                              | Spring to midsummer    | Perennial grass        |
| SPNE        | <i>Sporobolus nealleyi</i>                                      | <i>Sporobolus nealleyi</i>                            | See Barnes (1983)                                                   | Late summer to fall    | Perennial grass        |
| SPTE5       | <i>Sporobolus texanus</i>                                       | <i>Sporobolus texanus</i>                             | Not common                                                          | Mid- to late summer    | Perennial grass        |
| STPA        | <i>Stachys palustris</i>                                        | <i>Stachys palustris</i>                              | See Herbarium, Bandelier National Monument                          | Early summer to fall   | Annual forb            |
| STPI        | <i>Stanleya pinnata</i>                                         | <i>Stanleya pinnata</i>                               | See Robertson (1968)                                                | Spring to fall         | Perennial forb         |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                                | <i>Stellaria jamesiana</i>                            | Locally common                                                      | Early to late summer   | Perennial forb         |
| STLO        | <i>Stellaria longifolia</i>                                     | <i>Stellaria longifolia</i>                           | Not common                                                          | Late summer            | Perennial forb         |
| STLO2       | <i>Stellaria longipes</i>                                       | <i>Stellaria longipes</i>                             | Not common                                                          | Spring to midsummer    | Perennial forb         |
| STPA4       | <i>Stephanomeria pauciflora</i>                                 | <i>Stephanomeria pauciflora</i>                       | Not common                                                          | Midsummer to fall      | Perennial forb         |
| STTE2       | <i>Stephanomeria tenuifolia</i>                                 | <i>Stephanomeria tenuifolia</i>                       | Not common                                                          | Spring to fall         | Perennial forb         |
| ACNED       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>                   | <i>Stipa columbiana</i>                               | See Barnes (1983)                                                   | Late summer to fall    |                        |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>                   | <i>Stipa comata</i>                                   | Locally common                                                      | Early summer to fall   | Perennial grass        |
| ACEM4       | <i>Achnatherum eminens</i>                                      | <i>Stipa eminens</i>                                  | See Herbarium, Bandelier National Monument                          | Mid- to late summer    | Perennial grass        |
| ACLE9       | <i>Achnatherum lettermanii</i>                                  | <i>Stipa lettermanii</i>                              | See Osborne (1966)                                                  | Mid- to late summer    | Perennial grass        |
| HENE5       | <i>Hesperostipa neomexicana</i>                                 | <i>Stipa neomexicana</i>                              | See Foxx and Tierney (1985); Herbarium, Bandelier National Monument | Early to late summer   | Perennial grass        |
| ACRO7       | <i>Achnatherum robustum</i>                                     | <i>Stipa robusta</i>                                  | Not common                                                          | Mid- to late summer    | Perennial grass        |
| STCO6       | <i>Streptanthus cordatus</i>                                    | <i>Streptanthus cordatus</i>                          | Occasional                                                          |                        |                        |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                                 | Occurrence                               | Blooms                 | Habit                               |
|-------------|-------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|------------------------|-------------------------------------|
| STAM2       | <i>Streptopus amplexifolius</i>                             | <i>Streptopus amplexifolius</i>                            | Rare                                     | Mid- to late summer    | Perennial forb                      |
| FRSP        | <i>Frasera speciosa</i>                                     | <i>Swertia radiata</i>                                     | Locally common                           | Midsummer              | Perennial forb                      |
| SYOC        | <i>Symphoricarpos occidentalis</i>                          | <i>Symphoricarpos occidentalis</i>                         | See Robertson (1968)                     | Late summer            | Shrub                               |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                            | <i>Symphoricarpos oreophilus</i>                           | Not common                               | Early to late summer   | Shrub                               |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                           | <i>Symphoricarpos rotundifolius</i>                        | See Robertson (1966)                     | Early summer           | Shrub                               |
| TAPA3       | <i>Talinum parviflorum</i>                                  | <i>Talinum parviflorum</i>                                 | Rare                                     | Late summer            | Perennial forb                      |
| TAGA        | <i>Tamarix gallica</i>                                      | <i>Tamarix gallica</i>                                     | Locally common                           | Spring                 | Tree                                |
| TACH2       | <i>Tamarix chinensis</i>                                    | <i>Tamarix pentandra</i>                                   | Locally common                           | Spring to fall         | Tree                                |
| TALA2       | <i>Taraxacum laevigatum</i>                                 | <i>Taraxacum laevigatum</i>                                | See Pilz et al. (1979); Robertson (1968) | Spring and fall        | Perennial forb                      |
| TAOF        | <i>Taraxacum officinale</i>                                 | <i>Taraxacum officinale</i>                                | Ubiquitous                               | Spring to late summer  | Perennial forb                      |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i>                                | Not common                               | Late summer to fall    | Shrub                               |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i> var. <i>inermis</i>            | Occasional                               |                        |                                     |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>             | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | Locally common                           | Spring to early summer | Perennial forb                      |
| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      | Locally abundant                         |                        |                                     |
| THME        | <i>Thelesperma megapotamicum</i>                            | <i>Thelesperma megapotamicum</i>                           | Locally common                           | Late summer to fall    | Perennial forb                      |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>        | <i>Thelesperma trifidum</i>                                | Locally common                           | Early to midsummer     | Perennial forb                      |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i>  | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> | See Foxx and Tierney (1985)              | Early summer to fall   | Biennial forb                       |
| THWR        | <i>Thelypodium wrightii</i>                                 | <i>Thelypodium wrightii</i>                                | Not common                               | Mid- to late summer    | Biennial forb                       |
| THMO6       | <i>Thermopsis montana</i>                                   | <i>Thermopsis montanum</i>                                 | See Foxx and Tierney (1985)              | Spring to fall         | Perennial forb                      |
| THDI4       | <i>Thermopsis divaricarpa</i>                               | <i>Thermopsis pinetorum</i>                                | Locally common                           | Early spring           | Perennial forb                      |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>                | <i>Thlaspi alpestre</i>                                    | Locally common                           | Spring to early summer | Perennial forb                      |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>          | <i>Torreyochloa pauciflora</i>                             | Occasional                               |                        |                                     |
| TOAN        | <i>Townsendia annua</i>                                     | <i>Townsendia annua</i>                                    | Not common                               | Spring to fall         | Annual forb                         |
| TOEX        | <i>Townsendia eximia</i>                                    | <i>Townsendia eximia</i>                                   | See Robertson (1968)                     | Spring to fall         | Biennial forb                       |
| TOFO        | <i>Townsendia formosa</i>                                   | <i>Townsendia formosa</i>                                  | See Robertson (1968)                     | Early to late summer   | Perennial forb                      |
| TOIN        | <i>Townsendia incana</i>                                    | <i>Townsendia incana</i>                                   | Not common                               | Midsummer              | Annual, biennial, or Perennial forb |
| TOEX2       | <i>Townsendia exscapa</i>                                   | <i>Townsendia exscapa</i>                                  | Common                                   | Spring                 | Perennial forb                      |
| TRNE        | <i>Tragia nepetifolia</i>                                   | <i>Tragia nepetaefolia</i>                                 | Locally abundant                         |                        |                                     |
| TRDU        | <i>Tragopogon dubius</i>                                    | <i>Tragopogon dubius</i>                                   | Common                                   | summer                 | Perennial or biennial forb          |
| TRPR        | <i>Tragopogon pratensis</i>                                 | <i>Tragopogon pratensis</i>                                | Locally common                           | Early summer to fall   | Perennial forb                      |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                               | Rare                                     | Early to late summer   | Perennial forb                      |
| TRTE        | <i>Tribulus terrestris</i>                                  | <i>Tribulus terrestris</i>                                 | Locally common                           | Spring to summer       | Annual forb                         |
| ERPU8       | <i>Erioneuron pulchellum</i>                                | <i>Tridens pulchellus</i>                                  | See Foxx and Tierney (1985)              | Spring to midsummer    | Perennial grass                     |
| TRDA2       | <i>Trifolium dasyphyllum</i>                                | <i>Trifolium dasyphyllum</i>                               | See Pilz et al. (1979)                   | Midsummer to fall      | Perennial forb                      |
| TRHY        | <i>Trifolium hybridum</i>                                   | <i>Trifolium hybridum</i>                                  | Not common                               | Midsummer to fall      | Perennial forb                      |

# OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                           | Martin and Hutchins (1980)                           | Occurrence                                 | Blooms                 | Habit                   |
|-------------|------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------|-------------------------|
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>            | <i>Trifolium lacerum</i>                             | See Osborne (1966)                         | Spring to late summer  | Annual forb             |
| TRPR2       | <i>Trifolium pratense</i>                                  | <i>Trifolium pratense</i>                            | Common                                     | Mid- to late summer    | Perennial forb          |
| TRCA5       | <i>Trifolium campestre</i>                                 | <i>Trifolium procumbens</i>                          | Not common                                 | Spring to fall         | Annual forb             |
| TRRE3       | <i>Trifolium repens</i>                                    | <i>Trifolium repens</i>                              | Common                                     | Mid- to late summer    | Perennial forb          |
| TRPE4       | <i>Tridanis perfoliata</i>                                 | <i>Tridanis perfoliata</i>                           | Not common                                 | Midsummer              | Annual forb             |
| TRMO5       | <i>Trisetum montanum</i>                                   | <i>Trisetum montanum</i>                             | See Osborne (1966)                         | Early to late summer   | Perennial grass         |
| TRSP2       | <i>Trisetum spicatum</i>                                   | <i>Trisetum spicatum</i>                             | See Foxx and Tierney (1985)                | Mid- to late summer    | Perennial grass         |
| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                               | Locally common                             | Spring                 | Perennial forb          |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         | See Pilz et al. (1979)                     | Midsummer to fall      | Perennial forb          |
| URGR        | <i>Urtica gracilentia</i>                                  | <i>Urtica gracilentia</i>                            | Locally common                             | Midsummer to fall      | Perennial forb          |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               | See Osborne (1966)                         | Midsummer to fall      | Perennial forb          |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           | Locally common                             | Early to midsummer     | Shrub                   |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           | Locally common                             | Spring                 | Perennial forb          |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    | See Foxx and Tierney (1985)                | Spring to midsummer    | Perennial forb          |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         | Locally common                             | Mid- to late summer    | Perennial forb          |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             | Common                                     | Early to late summer   | Biennial forb           |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         | Not common                                 | Spring to fall         | Annual or biennial forb |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             | Locally common                             | Late summer            | Annual forb             |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             | See Pilz et al. (1979)                     | Spring to fall         | Annual or biennial forb |
| VEMA        | <i>Verbena macdougallii</i>                                | <i>Verbena macdougallii</i>                          | See Housley (1974)                         | Early summer to fall   | Annual forb             |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              | Common                                     | Spring to early summer | Perennial forb          |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> | Locally common                             | Late summer            | Annual forb             |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            | Locally common                             | Mid- to late summer    | Perennial forb          |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             | See Robertson (1968)                       | Spring to late summer  | Annual forb             |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     | Not common                                 | Mid- to late summer    | Annual forb             |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        | Locally common                             | Mid- to late summer    | Perennial forb          |
| VEWO2       | <i>Veronica wormskjoldii</i>                               | <i>Veronica wormskjoldii</i>                         | See Osborne (1966)                         | Midsummer to fall      | Perennial forb          |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              | See Foxx and Tierney (1985)                | Early to late summer   | Shrub                   |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>               | <i>Vicia americana</i> var. <i>americana</i>         | Ubiquitous                                 | Midsummer to fall      | Perennial forb          |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>linearis</i>          | See Osborne (1966)                         | Spring to fall         | Perennial forb          |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>             | Not common                                 | Spring to midsummer    | Perennial forb          |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>           | <i>Vicia exigua</i>                                  | Locally Abundant                           |                        |                         |
| VILE3       | <i>Vicia leucophaea</i>                                    | <i>Vicia leucophaea</i>                              | See Herbarium, Bandelier National Monument | Midsummer to fall      | Annual forb             |
| VICO        | <i>Viguiera cordifolia</i>                                 | <i>Viguiera cordifolia</i>                           | See Robertson (1968)                       | Early summer to fall   | Perennial forb          |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i>        | <i>Viguiera multiflora</i>                           | Ubiquitous                                 | Mid- to late summer    | Perennial forb          |
| VIAD        | <i>Viola adunca</i>                                        | <i>Viola adunca</i>                                  | Locally common                             | Spring                 | Perennial forb          |

## OCCURRENCE CON'T

| USDA Symbol | USDA NRCS PLANTS                                 | Martin and Hutchins (1980)                       | Occurrence                                               | Blooms                 | Habit          |
|-------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------------|------------------------|----------------|
| VICA4       | <i>Viola canadensis</i>                          | <i>Viola canadensis</i>                          | Locally common                                           | Spring & early summer  | Perennial forb |
| VISO        | <i>Viola sororia</i>                             | <i>Viola nephrophylla</i>                        | Locally common                                           | Spring                 | Perennial forb |
| VIPE2       | <i>Viola pedatifida</i>                          | <i>Viola pedatifida</i>                          | Rare                                                     | Early summer           | Perennial forb |
| VIAR2       | <i>Vitis arizonica</i>                           | <i>Vitis arizonica</i> var. <i>arizonica</i>     | Locally common                                           | Spring to midsummer    | Vine           |
| VIVU        | <i>Vitis vulpina</i>                             | <i>Vitis vulpina</i>                             | See Foxx and Tierney (1985)                              | Spring to early summer | Vine           |
|             |                                                  | <i>Woodsia mexicana</i>                          | Occasional                                               |                        |                |
| WOOR        | <i>Woodsia oregana</i>                           | <i>Woodsia oregana</i>                           | See Robertson (1968); Osborne (1966); Pilz et al. (1979) | Not applicable         | Perennial forb |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i> | <i>Xanthium strumarium</i> var. <i>canadense</i> | Locally common                                           | Early summer           | Annual forb    |
| YUAN2       | <i>Yucca angustissima</i>                        | <i>Yucca angustissima</i>                        | Common                                                   | Spring to early summer | Perennial forb |
| YUBA        | <i>Yucca baccata</i>                             | <i>Yucca baccata</i>                             | Not common                                               | Spring to early summer | Perennial forb |
| YUGL        | <i>Yucca glauca</i>                              | <i>Yucca glauca</i>                              | See Robertson (1968); Foxx and Tierney (1985)            | Spring to early summer | Perennial forb |
| ZIGR        | <i>Zinnia grandiflora</i>                        | <i>Zinnia grandiflora</i>                        | Occasional                                               |                        |                |
| ZIEL2       | <i>Zigadenus elegans</i>                         | <i>Zygadenus elegans</i>                         | Locally common                                           | Late summer            | Perennial forb |

### Key for heading acronyms and abbreviations:

Family = species sorted by family.

USDA Symbol = acronym used in USDA NRCS PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Occurrence = occurrence based on general observations; if collector was other than Foxx and/or Tierney, the reference is cited.

Blooms = the seasons in which the plant blooms.

Habit = information about growth form and outward appearance.

## HABITAT



Indian Paintbrush

## HABITAT

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Habitat                                                                            | Min Elev (ft) | Max Elev (ft) |
|--------------|------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------|---------------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | Canyon sides, mountain slopes; often with spruce, mixed conifer forests            | 7500          | 9000          |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | Mountain slopes; mixed conifer forests                                             | 8500          | 10000         |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    | Meadows, canyons; mixed-conifer forests and moist-wet                              | 6500          | 8000          |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        | Along streams and other moist areas                                                | 5400          | 7000          |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> | Canyons, mountain slopes, meadows; pinyon-juniper, ponderosa pine, mixed conifer   | 7000          | 10000         |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     | Moist canyons, stream banks                                                        | 8000          | 8500          |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    | Canyon bottoms, mountain slopes; mixed conifer forests                             | 7500          | 10000         |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      | Disturbed canyon bottoms                                                           | 6000          | 6000          |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   | Slopes and mesas; ponderosa pine and mixed conifer forests                         | 7000          | 9500          |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       | Meadows                                                                            | 7000          | 10000         |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      | Meadows; subalpine meadows, spruce-fir forest and Dry-moist                        | 9000          | 10000         |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       | Meadows; mixed conifer forests and Dry-moist                                       | 7500          | 8000          |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |                                                                                    |               |               |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    | Canyons                                                                            | 6500          | 8000          |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        | Along streams, moist canyon bottoms                                                | 7500          | 8000          |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   | Mesas                                                                              | 6900          | 7150          |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     | Disturbed soil; juniper grassland, pinyon-juniper woodland                         | 5400          | 8000          |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      | Meadows and open slopes                                                            | 9000          | 9500          |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   | Mountains                                                                          | 6000          | 7500          |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         | Canyon bottoms                                                                     | 5700          | 5700          |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest                     | 6500          | 7500          |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    | Mountains and meadows                                                              | 8000          | 10000         |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   | Transplant La Mesa fire, roadsides; pinyon-juniper woodland, mixed conifer forests | 7000          | 9000          |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            | Canyon bottoms, meadows, mountain slopes; pinyon juniper woodland, ponderosa       | 6500          | 8500          |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         | Canyon bottoms                                                                     | 5700          | 5700          |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      | Meadows                                                                            | 7000          | 10000         |

\* A key for heading acronyms and abbreviations is on the last page of this table.

## HABITAT CON'T

| USDA Symbol      | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                | Habitat                                                                                           | Min Elev (ft) | Max Elev (ft) |
|------------------|----------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------|---------------|---------------|
| AGPE             | <i>Agrostis perennans</i>                                                              | <i>Agrostis perennans</i>                 | Canyon bottom meadows                                                                             | 8700          | 8700          |
| AGSC5            | <i>Agrostis scabra</i>                                                                 | <i>Agrostis scabra</i>                    | Canyon bottoms; mixed conifer forests                                                             | 8000          | 8500          |
| POVI9            | <i>Polypogon viridis</i>                                                               | <i>Agrostis semiverticillata</i>          | Moist canyon bottoms                                                                              | 6000          | 6300          |
| AGST2            | <i>Agrostis stolonifera</i>                                                            | <i>Agrostis stolonifera</i>               | Moist canyon bottoms and mountain slopes                                                          | 5300          | 9000          |
| AIAL             | <i>Ailanthus altissima</i>                                                             | <i>Ailanthus altissima</i>                | Disturbed soil, around abandoned buildings                                                        | 5400          | 7000          |
| ALCEO            | <i>Allium cernuum</i> var. <i>obtusum</i>                                              | <i>Allium cernuum</i> var. <i>obtusum</i> | Canyons, mesas, meadows, mountain slopes; pinyon-juniper woodland, pine, mixed conifer, subalpine | 7000          | 10000         |
| ALGE             | <i>Allium geyeri</i>                                                                   | <i>Allium geyeri</i>                      | Meadows and slopes                                                                                | 6500          | 12000         |
| ALMA4            | <i>Allium macropetalum</i>                                                             | <i>Allium macropetalum</i>                | Dry mesas                                                                                         | 6250          | 6250          |
| ALTE             | <i>Allium textile</i>                                                                  | <i>Allium textile</i>                     | Mesa tops; juniper grassland                                                                      | 6000          | 6500          |
| ALOB2            | <i>Alnus oblongifolia</i>                                                              | <i>Alnus oblongifolia</i>                 | Along streams; pinyon-juniper woodland, ponderosa pine forest                                     | 6000          | 7500          |
| ALINT            | <i>Alnus incana</i> ssp. <i>tenuifolia</i>                                             | <i>Alnus tenuifolia</i>                   | Along streams in canyons; pinyon-juniper woodland, ponderosa pine forest                          | 6000          | 7500          |
| ALAE             | <i>Alopecurus aequalis</i>                                                             | <i>Alopecurus aequalis</i>                | Boggy mountain meadows, pond edge                                                                 | 8950          | 9000          |
| ALRO3            | <i>Alcea rosea</i>                                                                     | <i>Althaea rosea</i>                      | Canyon bottoms and roadside on mountain slopes                                                    | 8900          | 8900          |
| AMAL             | <i>Amaranthus albus</i>                                                                | <i>Amaranthus albus</i>                   | Disturbed canyon slopes, periodically flooded by lake waters                                      | 5450          | 5450          |
| AMAL; AMBL       | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>              | Disturbed soil                                                                                    | 5400          | 8000          |
| AMHY             | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                | Disturbed soil                                                                                    | 5400          | 8000          |
| AMHY2            | <i>Amaranthus hypochondriacus</i> L.                                                   | <i>Amaranthus leucocarpus</i>             | Disturbed canyon bottoms, periodically flooded by lake waters                                     | 5300          | 5300          |
| AMPA             | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                 | Disturbed soil; riverbanks                                                                        | 5400          | 6000          |
| AMPO2            | <i>Amaranthus powellii</i> S. Wats.                                                    | <i>Amaranthus powellii</i>                | Disturbed areas of canyons and mesas                                                              | 5450          | 6500          |
| AMRE             | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>             | Disturbed soil; moist ground                                                                      | 5400          | 8000          |
| AMAR; AMBI; AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                 | Dry sandy soil                                                                                    | 5400          | 7000          |
| AMAR2            | <i>Ambrosia artemisiifolia</i>                                                         | <i>Ambrosia artemisiifolia</i>            | Moist canyon bottoms; pinyon-juniper woodland and Dry-moist                                       | 6000          | 6500          |
| AMPS             | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>              | Disturbed soil and Dry-moist-wet                                                                  | 5400          | 7500          |
| AMUTU            | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier bakeri</i>                 | Moist canyon bottoms                                                                              | 6600          | 8000          |
| AMUTU            | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier oreophila</i>              | Canyon sides and bottoms; mixed conifer forest                                                    | 7500          | 8000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Habitat                                                                             | Min Elev (ft) | Max Elev (ft) |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------|
| AMPU5       | <i>Amelanchier pumila</i>                                     | <i>Amelanchier polycarpa</i>                                  | Mixed conifer forest                                                                | 7000          | 9000          |
| AMUT        | <i>Amelanchier utahensis</i>                                  | <i>Amelanchier utahensis</i>                                  | Rocky slopes, canyon bottoms                                                        | 6000          | 7500          |
| AMCA6       | <i>Amorpha canescens</i>                                      | <i>Amorpha canescens</i>                                      | Dry mesas                                                                           | 5400          | 6000          |
| AMFR        | <i>Amorpha fruticosa</i>                                      | <i>Amorpha fruticosa</i> var. <i>angustifolia</i>             | Banks of the Rio Grande                                                             | 5400          | 6000          |
| AMNA        | <i>Amorpha nana</i>                                           | <i>Amorpha nana</i>                                           | Mesas and slopes                                                                    | 5400          | 6500          |
| ANAR        | <i>Anagallis arvensis</i>                                     | <i>Anagallis arvensis</i>                                     | Disturbed soil                                                                      | 5400          | 7000          |
| ANMA        | <i>Anaphalis margaritacea</i>                                 | <i>Anaphalis margaritacea</i>                                 | Canyons; ponderosa pine and mixed conifer forests and Dry-moist                     | 7000          | 8000          |
| BOBAB       | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>         | <i>Andropogon barbinodis</i>                                  | Canyons and mesas                                                                   | 5400          | 8500          |
| ANGE        | <i>Andropogon gerardii</i>                                    | <i>Andropogon gerardii</i>                                    | Mesas                                                                               | 5400          | 7500          |
| ANHA        | <i>Andropogon hallii</i>                                      | <i>Andropogon hallii</i>                                      | Canyon rims and adjacent mesas                                                      | 5400          | 6500          |
| BOSA        | <i>Bothriochloa saccharoides</i>                              | <i>Andropogon saccharoides</i>                                | pinyon-juniper woodland                                                             | 5400          | 7500          |
| SCSCS2      | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>          | <i>Andropogon scoparius</i>                                   | Canyons, mesas; juniper grassland, pinyon-juniper woodland, ponderosa pine for      | 5400          | 8000          |
| BOSP3       | <i>Bothriochloa springfieldii</i>                             | <i>Andropogon springfieldii</i>                               | Dry mesas and canyons                                                               | 5400          | 6000          |
| BOWR2       | <i>Bothriochloa wrightii</i>                                  | <i>Andropogon wrightii</i>                                    | Dry mesas and canyons                                                               | 4500          | 7000          |
| ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>       | <i>Androsace septentrionalis</i> var. <i>subulifera</i>       | Canyon bottoms, meadows, mountain slopes; pine, mixed conifer, subalpine mead.      | 7000          | 10000         |
| ANCY        | <i>Anemone cylindrica</i>                                     | <i>Anemone cylindrica</i>                                     | Moist meadows, along streams                                                        | 6500          | 8000          |
| ANPI2       | <i>Angelica pinnata</i>                                       | <i>Angelica pinnata</i>                                       | Wet meadows and along streams                                                       | 6500          | 9000          |
| ANCR2       | <i>Anoda cristata</i>                                         | <i>Anoda cristata</i> var. <i>digitata</i>                    | Moist ground, often near streams                                                    | 5400          | 6500          |
| ANMA5       | <i>Antennaria marginata</i>                                   | <i>Antennaria marginata</i>                                   | Open woods                                                                          | 7000          | 9000          |
| ANPA4       | <i>Antennaria parvifolia</i>                                  | <i>Antennaria parvifolia</i>                                  | Canyons, mountain slopes; pinyon-juniper woodland, ponderosa pine and mixed conifer | 6500          | 8500          |
| ANRO2       | <i>Antennaria rosea</i>                                       | <i>Antennaria rosea</i>                                       | Mesas                                                                               | 6500          | 6500          |
| ANRO3       | <i>Antennaria rosulata</i>                                    | <i>Antennaria rosulata</i>                                    | Meadows and Dry                                                                     | 6000          | 9000          |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               | Dry canyon bottoms                                                                  | 5400          | 5400          |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> | Disturbed soil, roadsides; ponderosa pine forest                                    | 7000          | 9000          |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            | Disturbed soil; pinyon-juniper woodland                                             | 6000          | 6500          |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            | Dry canyon bottoms and slopes                                                       | 7250          | 7250          |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     | Meadows; subalpine meadows                                                          | 9500          | 10000         |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   | Moist slopes and canyons                                                            | 6000          | 7000          |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   | Canyon bottoms, moist slopes                                                        | 7000          | 10000         |



## HABITAT CON'T

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|-------------|--------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------|---------------|---------------|
| AQTR        | <i>Aquilegia tritemata</i>                             | <i>Aquilegia tritemata</i>                               | Moist canyon bottoms                                                            | 7500          | 9500          |
| ARDI2       | <i>Arabis X divaricarpa</i>                            | <i>Arabis divaricarpa</i>                                | Moist canyon bottoms                                                            | 5500          | 6400          |
| ARDR        | <i>Arabis drummondii</i>                               | <i>Arabis drummondii</i>                                 | Meadows, open woods                                                             | 7000          | 9000          |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>            | <i>Arabis fendleri</i> var. <i>fendleri</i>              | Rocky slopes; pinyon-juniper woodland, ponderosa pine and mixed conifer forests | 5400          | 8000          |
| ARGL        | <i>Arabis glabra</i>                                   | <i>Arabis glabra</i>                                     | Mesas and mountains                                                             | 5400          | 9000          |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>           | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>             | Rocky slopes in mountains                                                       | 6000          | 9000          |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>       | <i>Arabis holboellii</i> var. <i>retrofracta</i>         | Dry canyon bottoms; pinyon-juniper woodland                                     | 5400          | 6000          |
| ARPE2       | <i>Arabis perennans</i>                                | <i>Arabis perennans</i>                                  | Dry slopes                                                                      | 5400          | 8500          |
| ARRA        | <i>Aralia racemosa</i>                                 | <i>Aralia racemosa</i>                                   | Canyons, mountain slopes                                                        | 7000          | 9000          |
| ARDI3       | <i>Arceuthobium divaricatum</i>                        | <i>Arceuthobium divaricatum</i>                          | Parasitic on pinyon pines                                                       | 5400          | 7000          |
| ARDO        | <i>Arceuthobium douglasii</i>                          | <i>Arceuthobium douglasii</i>                            | Parasitic on Douglas Fir                                                        | 7000          | 9000          |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodium</i> | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodium</i> | Parasitic on ponderosa pine                                                     | 7000          | 9000          |
| ARPU5       | <i>Arctostaphylos pungens</i>                          | <i>Arctostaphylos pungens</i>                            | Abundant on rocky slopes                                                        | 5400          | 8000          |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                         | <i>Arctostaphylos uva-ursi</i>                           | Mountain slopes, under ponderosa pines                                          | 7500          | 10000         |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>          | <i>Arenaria confusa</i>                                  | Mountain meadows                                                                | 7850          | 8900          |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>          | <i>Arenaria fendleri</i> var. <i>brevifolia</i>          | Meadows, slopes                                                                 | 7500          | 10000         |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>        | <i>Arenaria fendleri</i> var. <i>fendleri</i>            | Meadows, mixed conifer forests and subalpine meadows                            | 8500          | 10000         |
| MOMA3       | <i>Moehringia macrophylla</i>                          | <i>Arenaria macrophylla</i>                              | Slopes, canyons; ponderosa pine and mixed conifer forests and Dry-moist         | 7000          | 8500          |
| ARAD        | <i>Aristida adscensionis</i>                           | <i>Aristida adscensionis</i>                             | Canyon bottoms and sides, dry mesas; juniper grassland, pinyon-juniper          | 5400          | 7500          |
| ARAR6       | <i>Aristida arizonica</i>                              | <i>Aristida arizonica</i>                                | Mesas and canyons                                                               | 5400          | 8000          |
| ARHA3       | <i>Aristida havardii</i>                               | <i>Aristida barbata</i>                                  | Disturbed soils, old fields, mesas                                              | 5400          | 7500          |
| ARDI5       | <i>Aristida divaricata</i>                             | <i>Aristida divaricata</i>                               | Dry disturbed soil, pinyon-juniper woodland                                     | 6000          | 6500          |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>       | <i>Aristida fendleriana</i>                              | Dry mesas                                                                       | 5400          | 7000          |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>         | <i>Aristida longiseta</i>                                | Dry canyon bottoms, disturbed soil; juniper grassland                           | 5400          | 6000          |
| ARPU9       | <i>Aristida purpurea</i>                               | <i>Aristida purpurea</i>                                 | Dry canyons and mesas                                                           | 5400          | 5400          |
| ARBI3       | <i>Artemisia bigelovii</i>                             | <i>Artemisia bigelovii</i>                               | Dry canyons; juniper grassland                                                  | 5400          | 8000          |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>       | <i>Artemisia campestris</i> subsp. <i>pacifica</i>       | Mountain slopes and Dry                                                         | 6000          | 8000          |
| ARCA13      | <i>Artemisia cana</i>                                  | <i>Artemisia cana</i>                                    | Mesas and Dry-moist                                                             | 5400          | 9000          |
| ARCA14      | <i>Artemisia carruthii</i>                             | <i>Artemisia carruthii</i>                               | Mesa, canyons, disturbed soil; juniper grassland, pinyon-juniper woodland       | 5400          | 7000          |

## HABITAT CON'T

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|-------------|------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------|---------------|---------------|
| ARDR4       | <i>Artemisia dracunculus</i>                         | <i>Artemisia dracunculus</i>                           | Disturbed soil, open areas; juniper grassland, pinyon-juniper woodland | 5400          | 8000          |
| ARFI2       | <i>Artemisia filifolia</i>                           | <i>Artemisia filifolia</i>                             | Canyon bottoms and sides; juniper grassland, pinyon-juniper woodland   | 5400          | 6000          |
| ARFR3       | <i>Artemisia franserioides</i>                       | <i>Artemisia franserioides</i>                         | Mountain slopes; mixed conifer forests                                 | 8500          | 9000          |
| ARFR4       | <i>Artemisia frigida</i>                             | <i>Artemisia frigida</i>                               | Mesas, canyon sides; pinyon-juniper woodland, ponderosa pine forest    | 5400          | 7000          |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>      | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>      | Dry canyon bottoms and slopes                                          | 5600          | 7200          |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> | Mountain slopes, disturbed soils                                       | 6500          | 9000          |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>    | Dry canyon bottoms and slopes                                          | 5850          | 6000          |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>     | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>    | Mountainsides                                                          | 9000          | 9500          |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>    | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>     | Dry canyon slopes                                                      | 5800          | 5800          |
| ARTR2       | <i>Artemisia tridentata</i>                          | <i>Artemisia tridentata</i>                            | Mesas, canyons, disturbed soils; pinyon-juniper woodland               | 5400          | 7000          |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>       | <i>Asclepias asperula</i> subsp. <i>asperula</i>       | Mesas and dry canyons; pinyon-juniper woodlands                        | 5400          | 6500          |
| ASEN        | <i>Asclepias engelmanniana</i>                       | <i>Asclepias engelmanniana</i>                         | Disturbed canyon bottoms and slopes                                    | 5460          | 6000          |
| ASIN14      | <i>Asclepias involucrata</i>                         | <i>Asclepias involucrata</i>                           | Dry mesas, dry canyons; pinyon-juniper woodland, ponderosa pine forest | 5400          | 7000          |
| ASMA        | <i>Asclepias macrotis</i>                            | <i>Asclepias macrotis</i>                              | Rocky canyons                                                          | 5400          | 6000          |
| ASSP        | <i>Asclepias speciosa</i>                            | <i>Asclepias speciosa</i>                              | Disturbed soil                                                         | 6500          | 7500          |
| ASSU2       | <i>Asclepias subverticillata</i>                     | <i>Asclepias subverticillata</i>                       | Disturbed soil, roadsides, pinyon-juniper woodland                     | 5400          | 7500          |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>       | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>     | Canyons; ponderosa pine forest                                         | 6500          | 7500          |
| ASVI        | <i>Asclepias viridiflora</i>                         | <i>Asclepias viridiflora</i>                           | Dry canyon slopes and mesas                                            | 5900          | 7300          |
| ASOF        | <i>Asparagus officinalis</i>                         | <i>Asparagus officinalis</i>                           | Valleys or roadsides; often loose sandy soil                           | 5400          | 6000          |
| ASTR2       | <i>Asplenium trichomanes</i>                         | <i>Asplenium trichomanes</i>                           | Rocky places, especially niches in canyon walls and cliffs             | 6500          | 9000          |
| ASER3       | <i>Aster ericoides</i>                               | <i>Aster ericoides</i>                                 | Canyon bottoms; juniper grassland, pinyon-juniper woodland             | 5400          | 7500          |
| ASFE        | <i>Aster fendleri</i>                                | <i>Aster fendleri</i>                                  | Mesas                                                                  | 5400          | 7000          |
| ASFO        | <i>Aster foliaceus</i>                               | <i>Aster foliaceus</i>                                 | Open, grassy mesas                                                     | 7250          | 7560          |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>         | <i>Aster glaucodes</i> var. <i>glaucodes</i>           | Mesas, slopes                                                          | 6500          | 9000          |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>       | <i>Aster hesperius</i>                                 | Moist canyons; mixed conifer forests                                   | 7500          | 8000          |
| ASLA5       | <i>Aster laevis</i>                                  | <i>Aster laevis</i>                                    | Moist canyons; mixed conifer forests                                   | 7000          | 8000          |
| ASNO        | <i>Aster novae-angliae</i>                           | <i>Aster novae-angliae</i>                             | Disturbed soils; roadsides                                             | 5400          | 9000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                                | Habitat                                                        | Min Elev (ft) | Max Elev (ft) |
|-------------|-------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|---------------|---------------|
| ASOC        | <i>Aster occidentalis</i>                                   | <i>Aster occidentalis</i>                                 | Moist meadows                                                  | 8500          | 10000         |
| ALPA14      | <i>Almutaster pauciflorus</i>                               | <i>Aster pauciflorus</i>                                  | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest | 6500          | 7000          |
| ASPR2       | <i>Aster praealtus</i>                                      | <i>Aster praealtus</i>                                    | Dry canyons                                                    | 5400          | 5400          |
| ASAG2       | <i>Astragalus agrestis</i>                                  | <i>Astragalus agrestis</i>                                | Moist meadows, near streams                                    | 5400          | 10000         |
| ASAM5       | <i>Astragalus amphioxys</i>                                 | <i>Astragalus amphioxys</i>                               | Dry mesas                                                      | 5400          | 6000          |
| ASBI2       | <i>Astragalus bisulcatus</i>                                | <i>Astragalus bisulcatus</i>                              | Disturbed canyon bottoms, periodically flooded by lake waters  | 5300          | 5300          |
| ASCR2       | <i>Astragalus crassicaupus</i>                              | <i>Astragalus crassicaupus.</i>                           | Along roadsides                                                | 5400          | 6000          |
| ASEM2       | <i>Astragalus emoryanus</i>                                 | <i>Astragalus emoryanus</i>                               | Canyons, disturbed soil                                        | 5400          | 7000          |
| ASFL2       | <i>Astragalus flexuosus</i>                                 | <i>Astragalus flexuosus</i>                               | Canyon bottoms and slopes and mesas                            | 5800          | 6600          |
| ASGR3       | <i>Astragalus gracilis</i>                                  | <i>Astragalus gracilis</i>                                | Sandy soil and mesas                                           | 5400          | 7000          |
| ASHU2       | <i>Astragalus humistratus</i>                               | <i>Astragalus humistratus</i>                             | Mesas and slopes                                               | 5400          | 8500          |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>      | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     | Disturbed soil; pinyon-juniper woodland                        | 7000          | 7500          |
| ASLE8       | <i>Astragalus lentiginosus</i>                              | <i>Astragalus lentiginosus</i>                            | Open forest; mixed conifer forests and subalpine meadows       | 9000          | 9500          |
| ASLO3       | <i>Astragalus lonchocarpus</i>                              | <i>Astragalus lonchocarpus</i>                            | Mesas, roadsides                                               | 6500          | 6500          |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i>   | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | Dry canyon sides, mesas tops; pinyon-juniper woodland          | 5400          | 6500          |
| ASMO7       | <i>Astragalus mollissimus</i>                               | <i>Astragalus mollissimus</i>                             | Mountain slopes, canyons; mixed conifer forests                | 8500          | 9000          |
| ASPR5       | <i>Astragalus praelongus</i>                                | <i>Astragalus praelongus</i>                              | Dry canyon sides, juniper grassland                            | 5400          | 6000          |
| ASSH3       | <i>Astragalus shortianus</i>                                | <i>Astragalus shortianus</i>                              | Mesas, rocky slopes                                            | 5000          | 9000          |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>         | <i>Athyrium filix-femina</i> var. <i>californicum</i>     | Cool shaded canyons or along streams                           | 7000          | 10000         |
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                                 | Disturbed soil, canyon sides; pinyon-juniper woodland          | 5400          | 6500          |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                                    | Alkaline soil                                                  | 5400          | 6500          |
| BABI3       | <i>Bahia bitemata</i>                                       | <i>Bahia bitemata</i>                                     | Mesas                                                          | 5400          | 6500          |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                                     | Disturbed soil; pinyon-juniper woodland                        | 5400          | 7000          |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                                  | Sandy soil                                                     | 5400          | 7500          |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                                 | Dry hills                                                      | 5400          | 6500          |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                               | Dry mesas and canyons; roadsides                               | 5400          | 6000          |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                                | Disturbed soil                                                 | 5400          | 7000          |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                              | Roadsides, moist canyon bottoms; pinyon-juniper woodland       | 6000          | 6500          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                  | Martin and Hutchins (1980)                          | Habitat                                                                                           | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------|---------------|
| BEFE        | <i>Berberis fendleri</i>          | <i>Berberis fendleri</i>                            | Canyons and slopes; ponderosa pine and mixed conifer forests                                      | 6500          | 8500          |
| MARE11      | <i>Mahonia repens</i>             | <i>Berberis repens</i>                              | Canyon and mountain slopes; ponderosa pine and mixed conifer forests                              | 7500          | 8000          |
| BELY        | <i>Berlandiera lyrata</i>         | <i>Berlandiera lyrata</i>                           | Dry canyons; juniper grassland                                                                    | 5400          | 6000          |
| BEER        | <i>Berula erecta</i>              | <i>Berula erecta</i>                                | Near streams                                                                                      | 5400          | 9000          |
| BEPL        | <i>Besseyia plantaginea</i>       | <i>Besseyia plantaginea</i>                         | Meadows; subalpine meadows                                                                        | 9500          | 10000         |
| BEOC2       | <i>Betula occidentalis</i>        | <i>Betula occidentalis</i>                          | Along streams; ponderosa pine and mixed conifer forests                                           | 6500          | 8000          |
| BIBI        | <i>Bidens bigelovii</i>           | <i>Bidens bigelovii</i>                             | Canyons, moist soil along streams                                                                 | 5400          | 6500          |
| BIBI7       | <i>Bidens bipinnata</i>           | <i>Bidens bipinnata</i> var. <i>bipinnata</i>       | Damp soil, disturbed soil                                                                         | 5400          | 6000          |
| BICE        | <i>Bidens cernua</i>              | <i>Bidens cernua</i>                                | Dry canyon bottoms; juniper grassland, pinyon-juniper woodland                                    | 5400          | 7500          |
| BITR        | <i>Bidens tripartita</i>          | <i>Bidens cosmosa</i>                               | Disturbed canyon bottoms, periodically flooded by lake waters                                     | 5460          | 5460          |
| BIFR        | <i>Bidens frondosa</i>            | <i>Bidens frondosa</i>                              | Disturbed canyon bottoms, periodically flooded by lake waters                                     | 5300          | 5300          |
| BLTR        | <i>Blepharoneuron tricholepis</i> | <i>Blepharoneuron tricholepis</i>                   | Mesas, canyon bottoms, mountain slopes, meadows; ponderosa, mixed conifer, subalpine              | 7500          | 10000         |
| BOCO2       | <i>Boerhavia coulteri</i>         | <i>Boerhaavia coulteri</i>                          | Dry washes                                                                                        | 5400          | 5400          |
| BOMU        | <i>Botrychium multifidum</i>      | <i>Botrychium multifidum</i> subsp. <i>coulteri</i> | Moist canyon bottoms                                                                              | 7150          | 7150          |
| BOAR        | <i>Bouteloua aristidoides</i>     | <i>Bouteloua aristidoides</i>                       | Mesas and canyons                                                                                 | 5400          | 6000          |
| BOBA2       | <i>Bouteloua barbata</i>          | <i>Bouteloua barbata</i>                            | Disturbed canyon bottoms                                                                          | 6000          | 6000          |
| BOCU        | <i>Bouteloua curtipendula</i>     | <i>Bouteloua curtipendula</i>                       | Canyon sides, mesa tops; juniper grassland                                                        | 5400          | 7000          |
| BOER4       | <i>Bouteloua eriopoda</i>         | <i>Bouteloua eriopoda</i>                           | Dry canyons sides, mesa tops, juniper grassland                                                   | 5400          | 6000          |
| BOGR2       | <i>Bouteloua gracilis</i>         | <i>Bouteloua gracilis</i>                           | Canyon bottoms and sides, mesas, mountains, juniper grassland, pinyon-juniper woodland, pine for. | 5400          | 8500          |
| BOHI2       | <i>Bouteloua hirsuta</i>          | <i>Bouteloua hirsuta</i>                            | Dry mesas, and canyons; juniper grassland, pinyon-juniper woodland                                | 5400          | 7000          |
| BOSI2       | <i>Bouteloua simplex</i>          | <i>Bouteloua simplex</i>                            | Roadsides; pinyon-juniper woodland                                                                | 6000          | 6500          |
| BRJU        | <i>Brassica juncea</i>            | <i>Brassica juncea</i>                              | Moist canyon bottoms; mixed conifer forests                                                       | 7500          | 8000          |
| BRNI        | <i>Brassica nigra</i>             | <i>Brassica nigra</i>                               | Roadsides and disturbed soil                                                                      | 5400          | 7000          |
| BRBE        | <i>Brickellia betonicifolia</i>   | <i>Brickellia betonicaefolia</i>                    | Dry hills, often in grassy, bushy areas                                                           | 5400          | 5500          |
| BRBR2       | <i>Brickellia brachyphylla</i>    | <i>Brickellia brachyphylla</i>                      | Ponderosa pine forest                                                                             | 5400          | 7500          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS               | Martin and Hutchins (1980)     | Habitat                                                                              | Min Elev (ft) | Max Elev (ft) |
|-------------|--------------------------------|--------------------------------|--------------------------------------------------------------------------------------|---------------|---------------|
| BRCA3       | <i>Brickellia californica</i>  | <i>Brickellia californica</i>  | Canyon sides; juniper grassland, pinyon-juniper woodland, ponderosa pine forest      | 5400          | 8000          |
| BRFE        | <i>Brickellia fendleri</i>     | <i>Brickellia fendleri</i>     | Canyon bottoms and slopes                                                            | 6350          | 7150          |
| BRGR        | <i>Brickellia grandiflora</i>  | <i>Brickellia grandiflora</i>  | Canyon sides, slopes                                                                 | 7000          | 8000          |
| BRAN        | <i>Bromus anomalus</i>         | <i>Bromus anomalus</i>         | Dry canyon sides, mountain slopes, meadows                                           | 5400          | 10000         |
| BRCA6       | <i>Bromus catharticus</i>      | <i>Bromus catharticus</i>      | Disturbed soil; ponderosa pine forest                                                | 7500          | 8000          |
| BRC12       | <i>Bromus ciliatus</i>         | <i>Bromus ciliatus</i>         | Meadows, moist ground                                                                | 6000          | 10000         |
| BRFR2       | <i>Bromus frondosus</i>        | <i>Bromus frondosus</i>        | Canyon bottoms; pinyon-juniper woodland, ponderosa pine forest                       | 6500          | 7000          |
| BRIN2       | <i>Bromus inermis</i>          | <i>Bromus inermis</i>          | Disturbed soil; mixed conifer forest                                                 | 8500          | 9000          |
| BRJA        | <i>Bromus japonicus</i>        | <i>Bromus japonicus</i>        | Disturbed soil                                                                       | 5400          | 7500          |
| BRLA6       | <i>Bromus lanatipes</i>        | <i>Bromus lanatipes.</i>       | Moist slopes                                                                         | 6500          | 8500          |
| BRMA4       | <i>Bromus marginatus</i>       | <i>Bromus marginatus</i>       | Canyon and mountain meadows                                                          | 7500          | 9500          |
| BRKA2       | <i>Bromus kalmii</i>           | <i>Bromus purgans</i>          | Moist or rocky slopes                                                                | 5400          | 10000         |
| BRTE        | <i>Bromus tectorum</i>         | <i>Bromus tectorum</i>         | Disturbed soil; juniper grassland, pinyon-juniper woodland, ponderosa pine for.      | 5400          | 7500          |
| BUDA        | <i>Buchloe dactyloides</i>     | <i>Buchloe dactyloides</i>     | Plains and prairies, lawns                                                           |               |               |
| CAGU        | <i>Calochortus gunnisonii</i>  | <i>Calochortus gunnisonii</i>  | Meadows; mixed conifer forests, subalpine meadows                                    | 9000          | 10000         |
| CANU3       | <i>Calochortus nuttallii</i>   | <i>Calochortus nuttallii</i>   | Mesas; juniper grassland                                                             | 6000          | 6000          |
| CAHA14      | <i>Calylophus hartwegii</i>    | <i>Calylophus hartwegii</i>    | Canyon bottoms, mesa tops; juniper grassland, pinyon-juniper woodland                | 5400          | 6500          |
| CABU        | <i>Calypso bulbosa</i>         | <i>Calypso bulbosa</i>         | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests            | 7000          | 9000          |
| CAM12       | <i>Camelina microcarpa</i>     | <i>Camelina microcarpa</i>     | Disturbed soil, often fields or along roadsides                                      | 5400          | 7500          |
| CAPA10      | <i>Campanula parryi</i>        | <i>Campanula parryi</i>        | Meadows, canyons; mixed conifer forests and Moist ground.                            | 7500          | 8000          |
| CARO2       | <i>Campanula rotundifolia</i>  | <i>Campanula rotundifolia</i>  | Moist ground, mountain slopes, canyons; mixed conifer and spruce-fir forests         | 7500          | 9500          |
| CABU2       | <i>Capsella bursa-pastoris</i> | <i>Capsella bursa-pastoris</i> | Disturbed soil, canyons, roadsides; juniper grassland, pinyon-juniper, mixed conifer | 5400          | 9500          |
| CACO6       | <i>Cardamine cordifolia</i>    | <i>Cardamine cordifolia</i>    | Wet or marshy ground, along streams                                                  | 7000          | 10000         |
| CADR        | <i>Cardaria draba</i>          | <i>Cardaria draba</i>          | Disturbed areas of canyons and mesas                                                 | 6000          | 7600          |
| CANU4       | <i>Carduus nutans</i>          | <i>Carduus nutans</i>          | Mountain slopes, roadside                                                            | 9000          | 9000          |
| CAAQ        | <i>Carex aquatilis</i>         | <i>Carex aquatilis</i>         | Wet ground                                                                           | 6000          | 11000         |
| CABE3       | <i>Carex bella</i>             | <i>Carex bella</i>             | Open meadows or along streams                                                        | 9000          | 10000         |
| CABO2       | <i>Carex bolanderi</i>         | <i>Carex bolanderi</i>         | Moist canyon bottoms                                                                 | 6800          | 6800          |

## HABITAT CON'T

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|-------------|------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------|---------------|---------------|
| CABR10      | <i>Carex brevior</i>                           | <i>Carex brevior</i>            | Canyon bottoms and moist slopes                                                   | 5600          | 7200          |
| CACA11      | <i>Carex canescens</i>                         | <i>Carex canescens</i>          | Marshy ground                                                                     | 8500          | 11000         |
| CADO2       | <i>Carex douglasii</i>                         | <i>Carex douglasii</i>          | Wet areas of canyons, mesas and mountain meadows                                  | 7450          | 9000          |
| CADU6       | <i>Carex duriuscula</i>                        | <i>Carex eleocharis</i>         | Open ground, meadows                                                              | 6000          | 8000          |
| CAMI7       | <i>Carex microptera</i>                        | <i>Carex festivella</i>         | Open meadows, mountain slopes; mixed conifer forests                              | 9000          | 9500          |
| CAFO3       | <i>Carex foenea</i>                            | <i>Carex foenea</i>             | High mountain meadows; subalpine meadows                                          | 9000          | 10000         |
| CAGE        | <i>Carex geophila</i>                          | <i>Carex geophila</i>           | Mesas; pinyon-juniper woodland                                                    | 6500          | 8500          |
| CAHY4       | <i>Carex hystericina</i>                       | <i>Carex hystericina</i>        | Moist canyons, streamside and wet canyon slopes                                   | 5400          | 6500          |
| CAIN11      | <i>Carex interior</i>                          | <i>Carex interior</i>           | Marshy ground; ponderosa pine and mixed conifer forests                           | 7000          | 9500          |
| CALA30      | <i>Carex lanuginosa</i>                        | <i>Carex lanuginosa</i>         | Canyon bottoms and slopes, streamside and near springs and boggy mountain meadows | 5550          | 9000          |
| CANE2       | <i>Carex nebraskensis</i>                      | <i>Carex nebraskensis</i>       | Marshy meadows                                                                    | 5400          | 9000          |
| CAOC2       | <i>Carex occidentalis</i>                      | <i>Carex occidentalis</i>       | Canyon bottoms, wet areas on mesas, mountain meadows                              | 5900          | 9300          |
| CAPR5       | <i>Carex praegracilis</i>                      | <i>Carex praegracilis</i>       | Moist ground and meadows                                                          | 5400          | 9500          |
| CASC11      | <i>Carex scoparia</i>                          | <i>Carex scoparia</i>           | Moist ground, meadows                                                             | 7000          | 9000          |
| CAST5       | <i>Carex stipata</i>                           | <i>Carex stipata</i>            | Marshy meadows                                                                    | 5400          | 9000          |
| CAXE        | <i>Carex xerantica</i>                         | <i>Carex xerantica</i>          | Damp ground, meadows                                                              | 6000          | 9000          |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>  | <i>Castilleja confusa</i>       | Meadows; mixed conifer and spruce-fir forests                                     | 7000          | 10000         |
| CAIN14      | <i>Castilleja integra</i>                      | <i>Castilleja integra</i>       | Mesas, canyon sides                                                               | 5400          | 7000          |
| CALI4       | <i>Castilleja linariifolia</i>                 | <i>Castilleja linariaefolia</i> | Canyon bottoms                                                                    | 6500          | 7000          |
| CALI5       | <i>Castilleja lineata</i>                      | <i>Castilleja lineata</i>       | Moist meadows                                                                     | 7500          | 9500          |
| CAMI12      | <i>Castilleja miniata</i>                      | <i>Castilleja miniata</i>       | Canyon bottoms, mountain slopes, meadows; ponderosa pine, mixed conifer forests   | 7500          | 10000         |
| CAMI13      | <i>Castilleja minor</i>                        | <i>Castilleja minor</i>         | Moist ground                                                                      | 5400          | 7000          |
| CARH4       | <i>Castilleja rhexiifolia</i>                  | <i>Castilleja rhexifolia</i>    | Moist ground                                                                      | 9000          | 11000         |
| CEFE        | <i>Ceanothus fendleri</i>                      | <i>Ceanothus fendleri</i>       | Disturbed sites, especially by fire, roadsides; ponderosa pine forest             | 7000          | 9500          |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i> | <i>Celtis reticulata</i>        | Along the banks of the Rio Grande and lower slopes of White Rock Canyon           | 5400          | 6000          |
| CEEC        | <i>Cenchrus echinatus</i>                      | <i>Cenchrus echinatus</i>       | Along banks of Rio Grande; juniper grassland                                      | 5400          | 5400          |
| CEIN4       | <i>Cenchrus incertus</i>                       | <i>Cenchrus pauciflorus</i>     | Disturbed soil; juniper grassland, pinyon-juniper woodland                        | 6000          | 6500          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                                | Habitat                                                                      | Min Elev (ft) | Max Elev (ft) |
|-------------|-------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------|---------------|---------------|
| CECA3       | <i>Centaurium calycosum</i>                           | <i>Centaurium calycosum</i>                               | Sandy soil, Rio Grande banks; juniper grassland                              | 5400          | 5400          |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                                  | Moist canyon bottoms, mountain slopes and meadows                            | 6850          | 9850          |
| CEBR3       | <i>Cerastium brachypodum</i>                          | <i>Cerastium brachypodum</i>                              | Moist woods meadows; ponderosa pine and mixed conifer forests                | 7000          | 9000          |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                                 | Moist canyons, streamside                                                    | 5700          | 6100          |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>          | Canyon sides, mesas; juniper grassland, pinyon-juniper woodland, pine forest | 6000          | 8000          |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>     | Dry slopes                                                                   | 6000          | 8500          |
| CHCO        | <i>Chamaesaracha coniodes</i>                         | <i>Chamaesaracha coniodes</i>                             | Dry canyon bottoms, disturbed soil                                           | 5400          | 6000          |
| CHCO2       | <i>Chamaesaracha coronopus</i>                        | <i>Chamaesaracha coronopus</i>                            | Dry canyons and mesas                                                        | 5400          | 6000          |
| CHFE        | <i>Cheilanthes feei</i>                               | <i>Cheilanthes feei</i>                                   | Canyon slopes, on cliffs and boulders                                        | 5500          | 5500          |
| CHFE2       | <i>Cheilanthes fendleri</i>                           | <i>Cheilanthes fendleri</i>                               | Rocky slopes and ledges, shady slopes                                        | 5400          | 9000          |
| CHTO2       | <i>Cheilanthes tomentosa</i>                          | <i>Cheilanthes tomentosa</i>                              | Canyon slopes, on cliffs and boulders                                        | 6600          | 6600          |
| CHEA        | <i>Cheilanthes eatonii</i>                            | <i>Cheilanthes eatonii</i>                                | Rocky slopes and ledges                                                      | 5400          | 9000          |
| CHAL6       | <i>Chenopodium albescens</i>                          | <i>Chenopodium albescens</i>                              | Disturbed soil                                                               | 5400          | 7000          |
| CHAL7       | <i>Chenopodium album</i>                              | <i>Chenopodium album</i>                                  | Disturbed soil                                                               | 6000          | 8000          |
| CHBE4       | <i>Chenopodium berlandieri</i>                        | <i>Chenopodium berlandieri</i>                            | Disturbed soil                                                               | 5400          | 8000          |
| CHCA4       | <i>Chenopodium capitatum</i>                          | <i>Chenopodium capitatum</i>                              | Wooded slopes, moist places                                                  | 7000          | 8000          |
| CHCY        | <i>Chenopodium cycloides</i>                          | <i>Chenopodium cycloides</i>                              | Moist ground                                                                 | 5400          | 6500          |
| CHDE        | <i>Chenopodium desiccatum</i>                         | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>      | Disturbed soil                                                               | 5400          | 8000          |
| CHPR5       | <i>Chenopodium pratericola</i>                        | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i> | Disturbed soil; ponderosa and mixed conifer forests                          | 7500          | 8000          |
| CHFR3       | <i>Chenopodium fremontii</i>                          | <i>Chenopodium fremontii</i>                              | Disturbed soil; pinyon-juniper woodland, and ponderosa pine forest           | 7000          | 8000          |
| CHSI2       | <i>Chenopodium simplex</i>                            | <i>Chenopodium gigantospermum</i>                         | Disturbed soils; spruce-fir forest                                           | 5400          | 8000          |
| CHGL3       | <i>Chenopodium glaucum</i>                            | <i>Chenopodium glaucum</i>                                | Disturbed soil                                                               | 5000          | 7000          |
| CHGR2       | <i>Chenopodium graveolens</i>                         | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>    | Disturbed soil                                                               | 7000          | 8000          |
| CHIN2       | <i>Chenopodium incanum</i>                            | <i>Chenopodium incanum</i>                                | Dry plains, hills                                                            | 5400          | 6500          |
| CHLE4       | <i>Chenopodium leptophyllum</i>                       | <i>Chenopodium leptophyllum</i>                           | Disturbed soil; pinyon-juniper woodland and ponderosa pine forest            | 6000          | 7500          |
| CHRU        | <i>Chenopodium rubrum</i>                             | <i>Chenopodium rubrum</i>                                 | Disturbed canyon bottoms, mountain slopes                                    | 5400          | 8900          |
| CHWA        | <i>Chenopodium watsonii</i>                           | <i>Chenopodium watsonii</i>                               | Dry mesas, canyons                                                           | 5400          | 7000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                     | Habitat                                                                           | Min Elev (ft) | Max Elev (ft) |
|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|---------------|
| CHUM        | <i>Chimaphila umbellata</i>                                                            | <i>Chimaphila umbellata</i>                                    | Mixed conifer forest                                                              | 8000          | 11000         |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         | Disturbed soil, roadsides; pinyon-juniper woodland                                | 6000          | 6500          |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      | Disturbed dry rocky or sandy soils, juniper grassland, pinyon-juniper, ponderosa  | 5400          | 8000          |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         | Disturbed soil; juniper grassland, pinyon-juniper woodland                        | 5400          | 7000          |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      | Disturbed soils, mesas, canyons; juniper grassland, pinyon-juniper woodland       | 5400          | 7000          |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           | Canyon slopes                                                                     | 7150          | 7150          |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             | Canyon slopes                                                                     | 6650          | 6650          |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> | Disturbed soil; juniper grassland, pinyon-juniper woodland                        | 6000          | 7000          |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        | Moist places, along streams                                                       | 7500          | 8500          |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          | Moist woods                                                                       | 6000          | 8000          |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    | Mesas                                                                             | 5400          | 6500          |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                                            | <i>Cirsium ochrocentrum</i>                                    | Mesas and canyons                                                                 | 5400          | 8000          |
| CIPA5       | <i>Cirsium pallidum</i>                                                                | <i>Cirsium pallidum</i>                                        | Moist sites, meadows mountain slopes, ponderosa pine and mixed conifer forests    | 7500          | 9000          |
| CIPA        | <i>Cirsium parryi</i>                                                                  | <i>Cirsium parryi</i>                                          | Mountain meadows                                                                  | 7500          | 9500          |
| CICA10      | <i>Cirsium calcareum</i>                                                               | <i>Cirsium pulchellum</i>                                      | Mountain slopes, canyons                                                          | 5400          | 9000          |
| CIUN        | <i>Cirsium undulatum</i>                                                               | <i>Cirsium undulatum</i>                                       | Disturbed soils                                                                   | 7000          | 9500          |
| CIVU        | <i>Cirsium vulgare</i>                                                                 | <i>Cirsium vulgare</i>                                         | Moist canyon bottoms and roadside on moist slopes                                 | 6600          | 9000          |
| CLDR        | <i>Clematis drummondii</i>                                                             | <i>Clematis drummondii</i>                                     | Slopes and canyons                                                                | 5400          | 5400          |
| CLLI2       | <i>Clematis ligusticifolia</i>                                                         | <i>Clematis ligusticifolia</i>                                 | Disturbed soil, canyon bottoms; pinyon-juniper woodland, ponderosa pine           | 6000          | 6500          |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i>                                      | <i>Clematis pseudoalpina</i>                                   | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests         | 7000          | 9000          |
| CLSE        | <i>Cleome serrulata</i>                                                                | <i>Cleome serrulata</i>                                        | Riverbanks, roadsides, disturbed soil; juniper grassland, pinyon-juniper woodland | 5400          | 7500          |
| CLVU        | <i>Clinopodium vulgare</i>                                                             | <i>Clinopodium vulgare</i>                                     | Canyons and mesas                                                                 | 6000          | 7000          |
| COLI2       | <i>Collomia linearis</i>                                                               | <i>Collomia linearis</i>                                       | Canyon bottoms; juniper grassland, pinyon-juniper woodland                        | 6500          | 7000          |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>                                          | <i>Comandra pallida</i>                                        | Canyons and mesas                                                                 | 5400          | 8000          |
| CODI4       | <i>Commelina dianthifolia</i>                                                          | <i>Commelina dianthifolia</i>                                  | Open woods, roadsides                                                             | 6500          | 9000          |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>                                          | <i>Conopholis mexicana</i>                                     | Canyon slopes and mountain slopes                                                 | 6500          | 8000          |



## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                 | Martin and Hutchins (1980)                            | Habitat                                                                      | Min Elev (ft) | Max Elev (ft) |
|-------------|--------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------|---------------|---------------|
| COAR4       | <i>Convolvulus arvensis</i>                      | <i>Convolvulus arvensis</i>                           | Roadsides; pinyon-juniper woodland                                           | 6500          | 7000          |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>      | <i>Convolvulus sepium</i>                             | Fields and disturbed soil; often in saline soils                             | 5400          | 8000          |
| COCA5       | <i>Conyza canadensis</i>                         | <i>Conyza canadensis</i>                              | Disturbed soils, roadsides                                                   | 5400          | 7500          |
| COMA4       | <i>Corallorrhiza maculata</i>                    | <i>Corallorrhiza maculata</i>                         | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests    | 7500          | 9500          |
| COST        | <i>Corallorrhiza striata</i>                     | <i>Corallorrhiza striata</i>                          | Canyon sides; mixed conifer forests                                          | 8000          | 9500          |
| COWR2       | <i>Cordylanthus wrightii</i>                     | <i>Cordylanthus wrightii</i>                          | Dry canyon bottoms; juniper grassland, pinyon-juniper woodland               | 5400          | 6000          |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i> | <i>Coreopsis cardaminefolia</i>                       | Mesas and meadows, often low ground                                          | 5400          | 7000          |
| COTI3       | <i>Coreopsis tinctoria</i>                       | <i>Coreopsis tinctoria</i>                            | Sandy soil                                                                   | 5400          | 5400          |
| COSA        | <i>Coriandrum sativum</i>                        | <i>Coriandrum sativum</i>                             | Disturbed soil                                                               | 5400          | 6000          |
| COSES       | <i>Comus sericea</i> ssp. <i>sericea</i>         | <i>Comus stolonifera</i>                              | Along streams, moist canyon bottoms; mixed conifer forests                   | 7500          | 8000          |
| COAU2       | <i>Corydalis aurea</i>                           | <i>Corydalis aurea</i>                                | Disturbed soil; juniper grassland to spruce-fir forest                       | 5700          | 9500          |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>   | <i>Coryphantha vivipara</i>                           | Mesas and rocky canyons; pinyon-juniper woodland                             | 5400          | 6500          |
| COPA12      | <i>Cosmos parviflorus</i>                        | <i>Cosmos parviflorus</i>                             | Disturbed soils, roadsides                                                   | 5400          | 9000          |
| CRER        | <i>Crataegus erythropoda</i>                     | <i>Crataegus erythropoda</i>                          | Along streams, canyon bottoms; mixed conifer forests                         | 7000          | 8000          |
| CRTE4       | <i>Croton texensis</i>                           | <i>Croton texensis</i>                                | Disturbed soil                                                               | 5400          | 7000          |
| CRFE3       | <i>Cryptantha fendleri</i>                       | <i>Cryptantha fendleri</i>                            | Often sandy, disturbed soil                                                  | 5400          | 9000          |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>    | <i>Cryptantha jamesii</i>                             | Disturbed ground; juniper grassland, pinyon-juniper woodland, ponderosa pine | 5400          | 7500          |
| CRM15       | <i>Cryptantha minima</i>                         | <i>Cryptantha minima</i>                              | Disturbed, sandy canyon bottoms, periodically flooded by lake waters         | 5460          | 5460          |
| CRAC3       | <i>Cryptogramma acrostichoides</i>               | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> | Rocky slopes, cliffs, in mountains                                           | 8000          | 12000         |
| CUFO        | <i>Cucurbita foetidissima</i>                    | <i>Cucurbita foetidissima</i>                         | Disturbed soil, sand dunes                                                   | 5400          | 6500          |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i>   | <i>Cuscuta campestris</i>                             | Canyon bottoms                                                               | 6000          | 6000          |
| CUUM        | <i>Cuscuta umbellata</i>                         | <i>Cuscuta umbellata</i>                              | On herbaceous hosts; pinyon-juniper woodland                                 | 5400          | 6500          |
| CYBU        | <i>Cymopterus bulbosus</i>                       | <i>Cymopterus bulbosus</i>                            | Mesa tops                                                                    | 6000          | 7000          |
| CYDA        | <i>Cynodon dactylon</i>                          | <i>Cynodon dactylon</i>                               | Disturbed soil, abandoned agricultural fields                                | 5400          | 5500          |
| CYEC        | <i>Cynosurus echinatus</i>                       | <i>Cynosurus echinatus</i>                            | Moist canyon bottoms                                                         | 6100          | 6100          |
| CYSQ        | <i>Cyperus squarrosus</i>                        | <i>Cyperus aristatus</i>                              | Moist canyon bottoms, streamside                                             | 6600          | 7700          |
| MISE3       | <i>Mitreola sessilifolia</i>                     | <i>Cyperus esculentus</i>                             | Canyon bottoms, moist ground                                                 | 5400          | 7500          |
| CYFE2       | <i>Cyperus fendlerianus</i>                      | <i>Cyperus fendlerianus</i>                           | Canyon bottoms                                                               | 6000          | 8500          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                              | Martin and Hutchins (1980)                            | Habitat                                                                          | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------|---------------|---------------|
| CYBI6       | <i>Cyperus bipartitus</i>                     | <i>Cyperus rivularis</i>                              | Moist, disturbed canyon bottoms, periodically flooded by lake waters             | 5360          | 5360          |
| CYPU10      | <i>Cypripedium pubescens</i>                  | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    | Moist canyon bottoms                                                             | 7200          | 7200          |
| CYFR2       | <i>Cystopteris fragilis</i>                   | <i>Cystopteris fragilis</i>                           | Canyon bottoms, mountain slopes, pinyon-juniper woodland, pine and mixed conifer | 7000          | 8500          |
| DAGL        | <i>Dactylis glomerata</i>                     | <i>Dactylis glomerata</i>                             | Disturbed soils, open mountain slopes, meadows; mixed conifer, subalpine meadows | 5400          | 10000         |
| DABR        | <i>Dalea brachystachya</i>                    | <i>Dalea brachystachys</i>                            | Canyon bottoms; pinyon-juniper woodland                                          | 6000          | 6500          |
| DAFO        | <i>Dalea formosa</i>                          | <i>Dalea formosa</i>                                  | Dry canyons and slopes                                                           | 5400          | 7000          |
| DALE3       | <i>Dalea leporina</i>                         | <i>Dalea leporina</i>                                 | Mesas, roadside                                                                  | 6650          | 7000          |
| DANA        | <i>Dalea nana</i>                             | <i>Dalea nana</i>                                     | Dry slopes of lower canyons                                                      | 5400          | 5400          |
| DAPO3       | <i>Dalea polygonoides</i>                     | <i>Dalea polygonoides</i>                             | Open slopes                                                                      | 5400          | 5500          |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>    | <i>Dalea terminalis</i>                               | Dry canyons                                                                      | 5400          | 5500          |
| DAIN        | <i>Danthonia intermedia</i>                   | <i>Danthonia intermedia</i>                           | Mountain meadows; subalpine meadows                                              | 8500          | 10000         |
| DAPA2       | <i>Danthonia parryi</i>                       | <i>Danthonia parryi</i>                               | Meadows                                                                          | 7500          | 9000          |
| DASP2       | <i>Danthonia spicata</i>                      | <i>Danthonia spicata</i>                              | Moist woods                                                                      | 8000          | 10000         |
| DAWR2       | <i>Datura wrightii</i>                        | <i>Datura meteloides</i>                              | Disturbed soil; near archeological ruins                                         | 5400          | 6000          |
| DEOC        | <i>Delphinium X occidentale</i>               | <i>Delphinium occidentale</i>                         | Near forest edge; mixed conifer forests                                          | 9000          | 9500          |
| DEWO        | <i>Delphinium wootonii</i>                    | <i>Delphinium virescens</i> subsp. <i>wootonii</i>    | Dry canyon bottoms                                                               | 5400          | 6500          |
| DECE        | <i>Deschampsia cespitosa</i>                  | <i>Deschampsia caespitosa</i>                         | Meadows, along streams                                                           | 7500          | 11000         |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>  | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>        | Canyons and stream banks                                                         | 5500          | 6500          |
| DEPI        | <i>Descurainia pinnata</i>                    | <i>Descurainia pinnata</i>                            | Disturbed soil; pinyon-juniper woodland                                          | 6500          | 7000          |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>  | <i>Descurainia richardsonii</i>                       | Disturbed soil                                                                   | 6500          | 10000         |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>  | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>  | Canyon bottoms and slopes and mesas                                              | 6200          | 7850          |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i> | <i>Descurainia richardsonii</i> subsp. <i>procera</i> | Dry mountain meadows                                                             | 9000          | 9000          |
| DESO2       | <i>Descurainia sophia</i>                     | <i>Descurainia sophia</i>                             | Disturbed soil                                                                   | 5400          | 8000          |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i> | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i> | Moist canyon bottoms and slopes, mountain slopes and meadows                     | 6350          | 8950          |
| DISP        | <i>Distichlis spicata</i>                     | <i>Distichlis spicata</i>                             | Saline soil                                                                      | 5400          | 5400          |
| DISP        | <i>Distichlis spicata</i>                     | <i>Distichlis stricta</i>                             | Sandy canyon bottoms, riverside                                                  | 5300          | 5300          |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                | <i>Dithyrea wislizenii</i>                            | Riverside sand dunes; juniper grassland                                          | 5400          | 6400          |
| DOAL        | <i>Dodecatheon alpinum</i>                    | <i>Dodecatheon alpinum</i>                            | Moist meadows                                                                    | 6500          | 9500          |
| DOPU        | <i>Dodecatheon pulchellum</i>                 | <i>Dodecatheon pulchellum</i>                         | Moist meadows, along streams                                                     | 7000          | 11000         |
| DRAU        | <i>Draba aurea</i>                            | <i>Draba aurea</i> var. <i>aurea</i>                  | Mountain slopes; mixed conifer forests, subalpine meadows                        | 9000          | 10000         |

## HABITAT CON'T

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------|---------------|
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>                  | <i>Draba helleriana</i> var. <i>helleriana</i>                  | Open or wooded rocky slopes                                                              | 7000          | 9000          |
| DRRE        | <i>Draba rectifructa</i>                                        | <i>Draba rectifructa</i>                                        | Open woods, open coniferous forests                                                      | 8000          | 9500          |
| DRRE2       | <i>Draba reptans</i>                                            | <i>Draba reptans</i>                                            | Mesas                                                                                    | 6250          | 6250          |
| DRSP        | <i>Draba spectabilis</i>                                        | <i>Draba spectabilis</i>                                        | Meadows and woods                                                                        | 7000          | 9000          |
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     | Damp rocky places, along streams                                                         | 6000          | 9000          |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         | Disturbed soil; juniper grassland, pinyon-juniper woodland                               | 6000          | 7000          |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        | Rocky mesas, canyons                                                                     | 5400          | 5400          |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    | Sandy or gravelly soils on mesas or slopes                                               | 6000          | 8000          |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | Rocky, gravelly slopes; pinyon-juniper woodland                                          | 5400          | 7000          |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   | Rocky slopes and canyons                                                                 | 5400          | 6500          |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | Rocky slopes, mesas; pinyon-juniper woodland                                             | 5400          | 6500          |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    | Moist ground; juniper grassland                                                          | 5400          | 6000          |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   | By the Rio Grande, roadsides, canyon bottoms; juniper grassland, pinyon-juniper woodland | 5400          | 7000          |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  | Moist canyon bottoms and wet canyon slopes                                               | 5500          | 7200          |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        | Damp ground; pinyon-juniper woodland                                                     | 6000          | 6500          |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           | Open woods and meadows                                                                   | 5400          | 7500          |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        | Open mountain slopes; subalpine meadows                                                  | 9500          | 10000         |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        | Dry mesas                                                                                | 6100          | 6100          |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                      | <i>Ephedra viridis</i> var. <i>viridis</i>                      | Rocky, sandy soil, canyon sides; juniper grassland                                       | 5400          | 6500          |
| EPAN2       | <i>Epilobium angustifolium</i>                                  | <i>Epilobium angustifolium</i>                                  | Open meadows, disturbed slopes, roadsides; mixed conifer forests                         | 8500          | 9000          |
| EPCI        | <i>Epilobium ciliatum</i>                                       | <i>Epilobium ciliatum</i>                                       | Moist areas, mixed conifer forests                                                       | 5400          | 10000         |
| EPOR2       | <i>Epilobium oregonense</i>                                     | <i>Epilobium oregonense</i>                                     | Open forest, wet meadows                                                                 | 9500          | 10000         |
| EPBR3       | <i>Epilobium brachycarpum</i>                                   | <i>Epilobium paniculatum</i>                                    | Moist places, along streams                                                              | 5400          | 8500          |
| EPGI        | <i>Epipactis gigantea</i>                                       | <i>Epipactis gigantea</i>                                       | Springs, White Rock Canyon, along streams                                                | 5400          | 8500          |
| EQAR        | <i>Equisetum arvense</i>                                        | <i>Equisetum arvense</i>                                        | Roadsides, canyon bottoms; ponderosa pine and mixed conifer forests                      | 7000          | 8000          |
| EQHY        | <i>Equisetum hyemale</i>                                        | <i>Equisetum hiemale</i>                                        | Along streams, moist canyon bottoms mixed conifer forests                                | 5400          | 8000          |

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|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------|
| EQLA        | <i>Equisetum laevigatum</i>                             | <i>Equisetum laevigatum</i>                             | Moist soil, along streams                                                           | 5400          | 8000          |
| ERPEN       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>      | <i>Eragrostis arida</i>                                 | Disturbed soil; pinyon-juniper woodland                                             | 6500          | 7500          |
| ERBA2       | <i>Eragrostis barrelieri</i>                            | <i>Eragrostis barrelieri</i>                            | Disturbed soil                                                                      | 5400          | 7000          |
| ERCI        | <i>Eragrostis cilianensis</i>                           | <i>Eragrostis cilianensis</i>                           | Disturbed canyon bottoms                                                            | 5460          | 6000          |
| ERCU2       | <i>Eragrostis curvula</i>                               | <i>Eragrostis curvula</i>                               | Disturbed canyon bottoms, periodically flooded by lake waters                       | 5360          | 5360          |
| ERHY        | <i>Eragrostis hypnoides</i>                             | <i>Eragrostis hypnoides</i>                             | Disturbed canyon bottoms, periodically flooded by lake waters                       | 5360          | 5360          |
| ERPE        | <i>Eragrostis pectinacea</i>                            | <i>Eragrostis pectinacea</i>                            | Disturbed canyon bottoms                                                            | 5400          | 6000          |
| ERTR3       | <i>Eragrostis trichodes</i>                             | <i>Eragrostis trichodes</i>                             | Disturbed canyon slopes, roadsides                                                  | 6300          | 6300          |
| ERCA4       | <i>Erigeron canus</i>                                   | <i>Erigeron canus</i>                                   | Dry soils on slopes; pinyon-juniper woodland, ponderosa and mixed conifer forests   | 5400          | 9000          |
| ERDI4       | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               | Canyons, mesas, roadsides; juniper grassland, pinyon-juniper woodland ponderosa     | 5400          | 8000          |
| EREL9       | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 | Along streams, moist meadows                                                        | 9500          | 10000         |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             | Canyons mesas, mountain slopes; pinyon-juniper, ponderosa, mixed conifer, subalpine | 5400          | 9500          |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | Meadows, canyons                                                                    | 5500          | 10000         |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus viscidus</i>                  | Canyon bottoms and slopes                                                           | 6500          | 7400          |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              | Dry slopes, mesas                                                                   | 5500          | 8000          |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  | Moist mountain meadows                                                              | 9500          | 12000         |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          | Moist canyons, mountain sides; mixed conifer forests                                | 8500          | 9500          |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            | Wooded slopes, mesas                                                                | 6500          | 9000          |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinus</i>          | <i>Erigeron pumilus</i> subsp. <i>concinoides</i>       | Disturbed soil; pinyon-juniper woodland                                             | 9000          | 6500          |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              | Dry, sandy canyon slopes                                                            | 5600          | 5600          |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 | Meadows; subalpine meadows, spruce-fir forest                                       | 10000         | 11000         |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | Moist canyons, meadows; ponderosa and mixed conifer forests, subalpine meadows      | 7500          | 9500          |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            | Canyons, mountain sides, meadows; ponderosa pine and mixed conifer forests          | 7500          | 10000         |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                | Meadows                                                                             | 8000          | 11000         |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               | Meadows                                                                             | 5400          | 7000          |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                | Subalpine meadows                                                                   | 9500          | 10000         |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                        | Habitat                                                                  | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------|---------------|---------------|
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>          | <i>Eriochloa gracilis</i>                         | Moist open ground                                                        | 5400          | 6000          |
| ERAB2       | <i>Eriogonum abertianum</i>                               | <i>Eriogonum abertianum</i>                       | Sandy mesas and slopes                                                   | 5400          | 6500          |
| ERAL4       | <i>Eriogonum alatum</i>                                   | <i>Eriogonum alatum</i>                           | Dry, often sandy, mesas and slopes                                       | 5400          | 7000          |
| ERAN4       | <i>Eriogonum annuum</i>                                   | <i>Eriogonum annuum</i>                           | Dry, often sandy, mesas and slopes                                       | 5400          | 7000          |
| ERCE2       | <i>Eriogonum cernuum</i>                                  | <i>Eriogonum cernuum</i>                          | Disturbed soil; juniper grassland, pinyon-juniper woodland               | 6500          | 7500          |
| EREF        | <i>Eriogonum effusum</i>                                  | <i>Eriogonum effusum</i>                          | Dry mesas                                                                | 5400          | 6500          |
| ERJA        | <i>Eriogonum jamesii</i>                                  | <i>Eriogonum jamesii</i>                          | Canyon sides, disturbed soil; juniper grassland, pinyon-juniper woodland | 6500          | 7500          |
| ERLE9       | <i>Eriogonum leptocladon</i>                              | <i>Eriogonum leptocladon</i>                      | Sandy plains                                                             | 5000          | 6000          |
| ERPO4       | <i>Eriogonum polycladon</i>                               | <i>Eriogonum polycladon</i>                       | Dry mesas and canyons                                                    | 5400          | 7000          |
| ERRA3       | <i>Eriogonum racemosum</i>                                | <i>Eriogonum racemosum</i>                        | Mesa tops, disturbed soil; juniper grassland, pinyon-juniper woodland    | 6500          | 7000          |
| ERIC6       | <i>Erodium cicutarium</i>                                 | <i>Erodium cicutarium</i>                         | Disturbed soil; pinyon-juniper woodland                                  | 6000          | 7000          |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>           | <i>Erysimum asperum</i>                           | Mesas and slopes                                                         | 5400          | 8000          |
| ERCA14      | <i>Erysimum capitatum</i>                                 | <i>Erysimum capitatum</i>                         | Canyon bottoms, mesas tops, juniper grassland, pinyon-juniper woodland   | 5400          | 8000          |
| ERIN7       | <i>Erysimum inconspicuum</i>                              | <i>Erysimum inconspicuum</i>                      | Mesas and open slopes                                                    | 5500          | 7000          |
| ERHE7       | <i>Erythronium hendersonii</i>                            | <i>Eupatorium herbaceum</i>                       | Mountain slopes; ponderosa pine, mixed conifer, and spruce-fir forests   | 7000          | 10000         |
| CHAL11      | <i>Chamaesyce albomarginata</i>                           | <i>Euphorbia albomarginata</i>                    | Mesas and slopes                                                         | 5400          | 6500          |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i>                          | Disturbed soil                                                           | 6000          | 7000          |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>  | Mesas and canyons                                                        | 5400          | 7000          |
| EUEX4       | <i>Euphorbia exstipulata</i>                              | <i>Euphorbia exstipulata</i>                      | Dry canyons                                                              | 5400          | 6000          |
| CHFE3       | <i>Chamaesyce fendleri</i>                                | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    | Mesas                                                                    | 5400          | 7000          |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>               | <i>Euphorbia geyeri</i>                           | Mesas, canyons; juniper grassland, pinyon-juniper woodland               | 5400          | 6000          |
| EULU        | <i>Euphorbia lurida</i>                                   | <i>Euphorbia lurida</i>                           | Meadows                                                                  | 5400          | 7500          |
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> | Mesas                                                                    | 5400          | 6000          |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      | Dry canyon bottoms; juniper grassland, pinyon-juniper woodland           | 5400          | 6000          |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         | Mesas, canyons; juniper grassland, pinyon-juniper woodland               | 5400          | 6500          |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          | Canyon bottoms and slopes                                                | 5700          | 6450          |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    | Meadows                                                                  | 5400          | 7500          |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             | Dry canyons juniper grassland                                            | 5400          | 6000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                  | Martin and Hutchins (1980)                      | Habitat                                                                   | Min Elev (ft) | Max Elev (ft) |
|-------------|---------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|---------------|---------------|
| EVNU        | <i>Evolvulus nuttallianus</i>                     | <i>Evolvulus pilosus</i>                        | Canyon slopes                                                             | 5550          | 5550          |
| FAPA        | <i>Fallugia paradoxa</i>                          | <i>Fallugia paradoxa</i>                        | Disturbed soil, canyon sides; juniper grassland, pinyon-juniper woodland  | 5000          | 7000          |
| FERUR       | <i>Fendlera rupicola</i> var. <i>rupicola</i>     | <i>Fendlera rupicola</i> var. <i>rupicola</i>   | Rocky canyon sides; juniper grassland, pinyon-juniper woodland            | 5400          | 6000          |
| FEAR2       | <i>Festuca arizonica</i>                          | <i>Festuca arizonica</i>                        | Dry slopes and open woods                                                 | 6500          | 9000          |
| LOPR7       | <i>Lolium pratense</i>                            | <i>Festuca elatior</i>                          | Disturbed soil and open meadows                                           | 5400          | 8000          |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>     | <i>Festuca octoflora</i>                        | Rocky ground                                                              | 5400          | 6500          |
| FEOV        | <i>Festuca ovina</i> L.                           | <i>Festuca ovina</i>                            | Mesas; ponderosa pine and mixed conifer forests                           | 7000          | 7500          |
| FESO        | <i>Festuca sororia</i>                            | <i>Festuca sororia</i>                          | Mountain slopes; mixed conifer forests                                    | 8000          | 8500          |
| FETH        | <i>Festuca thurberi</i>                           | <i>Festuca thurberi</i>                         | Rocky slopes                                                              | 7500          | 10500         |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i> | <i>Forestiera neomexicana</i>                   | Canyon bottoms, along streams, juniper grassland, pinyon juniper woodland | 5400          | 7000          |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>       | <i>Fragaria americana</i>                       | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests | 6500          | 9000          |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i> | <i>Fragaria ovalis</i>                          | Shaded places                                                             | 7000          | 9000          |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                | <i>Franseria acanthicarpa</i>                   | Sandy soil, disturbed soil                                                | 6500          | 8000          |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                 | <i>Franseria confertiflora</i>                  | Moist ground                                                              | 5500          | 5500          |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.               | <i>Gaillardia pinnatifida</i>                   | Canyons and mesas                                                         | 5400          | 7000          |
| GAAP2       | <i>Galium aparine</i> L.                          | <i>Galium aparine</i>                           | Canyons, mountain slopes; mixed conifer forests                           | 7000          | 9500          |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>aspermum</i>      | <i>Galium aspermum</i>                          | Canyons                                                                   | 5400          | 9000          |
| GABO2       | <i>Galium boreale</i>                             | <i>Galium boreale</i>                           | Canyons, mountain slopes; mixed conifer and spruce-fir forests            | 7500          | 10000         |
| GAFE        | <i>Galium fendleri</i>                            | <i>Galium fendleri</i>                          | Moist ground                                                              | 7000          | 9500          |
| GAMI        | <i>Galium microphyllum</i>                        | <i>Galium microphyllum</i>                      | Canyons                                                                   | 6500          | 9000          |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>    | <i>Galium tinctorum</i> var. <i>subbiflorum</i> | Moist ground                                                              | 6500          | 9000          |
| GACO5       | <i>Gaura coccinea</i>                             | <i>Gaura coccinea</i>                           | Canyon sides; juniper grassland, pinyon-juniper woodland                  | 5400          | 6000          |
| GAPA6       | <i>Gaura parviflora</i>                           | <i>Gaura parviflora</i>                         | Disturbed soil, dry mesas and canyons                                     | 5400          | 7000          |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana affinis</i>                         | Meadows, subalpine meadows                                                | 7000          | 10000         |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana bigelovii</i>                       | Subalpine meadows                                                         | 7500          | 10000         |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana plebeia</i>                         | Meadows, canyon bottoms; subalpine meadows, mountain meadows              | 8000          | 10000         |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana strictiflora</i>                    | Meadows, mixed conifer and spruce-fir forest                              | 8000          | 10000         |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                        | Martin and Hutchins (1980)                       | Habitat                                                                                   | Min Elev (ft) | Max Elev (ft) |
|-------------|---------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------|---------------|---------------|
| GECA3       | <i>Geranium caespitosum</i>                             | <i>Geranium caespitosum</i>                      | Canyon bottoms, mountain slopes; pinyon-juniper woodland                                  | 6000          | 9000          |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i>       | <i>Geranium fremontii</i>                        | Forested slopes and canyons                                                               | 6000          | 9000          |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>          | <i>Geranium fremontii</i> var. <i>parryi</i>     | Rocky slopes and canyons                                                                  | 5400          | 7000          |
| GERI        | <i>Geranium richardsonii</i>                            | <i>Geranium richardsonii</i>                     | Canyon bottoms, forest openings, mountain slopes; ponderosa, mixed conifer and spruce fir | 8000          | 10000         |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>         | <i>Geum macrophyllum</i> var. <i>perincisum</i>  | Meadows; subalpine meadows                                                                | 7500          | 10000         |
| GERI2       | <i>Geum rivale</i>                                      | <i>Geum rivale</i>                               | Meadows, mixed conifer forests                                                            | 7000          | 9500          |
| GEAL3       | <i>Geum aleppicum</i>                                   | <i>Geum strictum</i> var. <i>strictum</i>        | Mixed conifer forest                                                                      | 7000          | 9500          |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>              | <i>Geum triflorum</i> var. <i>ciliatum</i>       | Mountain slopes                                                                           | 7000          | 9000          |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>          | <i>Gilia flavocincta</i> subsp. <i>australis</i> | Canyon bottoms and slopes                                                                 | 5300          | 6300          |
| GILE3       | <i>Gilia leptomeria</i>                                 | <i>Gilia leptomeria</i>                          | Dry ground                                                                                | 5400          | 7000          |
| GIPI        | <i>Gilia pinnatifida</i>                                | <i>Gilia pinnatifida</i>                         | Mesas                                                                                     | 5400          | 6500          |
| GLBO        | <i>Glyceria borealis</i>                                | <i>Glyceria borealis</i>                         | Marshy meadows                                                                            | 6500          | 10000         |
| GLGR        | <i>Glyceria grandis</i>                                 | <i>Glyceria grandis</i>                          | Moist canyons and mountain slopes, in shallow streamwater                                 | 6000          | 9100          |
| GLST        | <i>Glyceria striata</i>                                 | <i>Glyceria striata</i>                          | Canyon bottoms                                                                            | 7000          | 7500          |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                             | <i>Glycyrrhiza lepidota</i>                      | Banks of Rio Grande, roadsides; juniper grassland, pinyon-juniper woodland                | 6000          | 6500          |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       | Disturbed canyon bottoms, periodically flooded by lake waters                             | 5400          | 5400          |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       | Moist ground                                                                              | 5400          | 7000          |
| GNEX        | <i>Gnaphalium exilifolium</i>                           | <i>Gnaphalium grayi</i>                          | Disturbed canyon bottoms, periodically flooded by lake waters                             | 5360          | 5360          |
| PSMA11      | <i>Pseudognaphalium macounii</i>                        | <i>Gnaphalium macounii</i>                       | Dry canyon slopes and mesas                                                               | 7200          | 7300          |
| GNPA        | <i>Gnaphalium palustre</i>                              | <i>Gnaphalium palustre</i>                       | Disturbed canyon bottoms, periodically flooded by lake waters                             | 5360          | 5360          |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i> | <i>Gnaphalium wrightii</i>                       | Dry canyon slopes and mountain slopes                                                     | 6100          | 6500          |
| GOOB2       | <i>Goodyera oblongifolia</i>                            | <i>Goodyera oblongifolia</i>                     | Mountain slopes, canyon bottoms; mixed conifer forests                                    | 8000          | 9500          |
| GORE2       | <i>Goodyera repens</i>                                  | <i>Goodyera repens</i>                           | Edges of meadows; mixed conifer forests                                                   | 8000          | 9500          |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>            | <i>Grindelia aphanactis</i>                      | Disturbed soil; pinyon-juniper woodland                                                   | 6000          | 6500          |
| GRFA        | <i>Grindelia fastigiata</i>                             | <i>Grindelia fastigiata</i>                      | Dry mesas                                                                                 | 5400          | 7000          |
| GRSQ        | <i>Grindelia squarrosa</i>                              | <i>Grindelia squarrosa</i>                       | Mesa tops                                                                                 | 6500          | 7000          |
| GUMI        | <i>Gutierrezia microcephala</i>                         | <i>Gutierrezia microcephala</i>                  | Mesas, canyons, disturbed areas                                                           | 5400          | 7000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                  | Martin and Hutchins (1980)                             | Habitat                                                                                      | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------|---------------|
| GUSA2       | <i>Gutierrezia sarothrae</i>                                                      | <i>Gutierrezia sarothrae</i>                           | Dry mesas, canyons                                                                           | 5400          | 8000          |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>                              | <i>Habenaria hyperborea</i>                            | Moist canyon bottoms, streamside                                                             | 6700          | 8000          |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>                            | <i>Habenaria sparsiflora</i>                           | Near streams                                                                                 | 7500          | 8500          |
| HAFL2       | <i>Hackelia floribunda</i>                                                        | <i>Hackelia floribunda</i>                             | Moist places, canyon bottoms; juniper grassland, pinyon-juniper, ponderosa, conifer          | 9000          | 9500          |
| HABE3       | <i>Hackelia besseyi</i>                                                           | <i>Hackelia grisea</i>                                 | Canyon slopes                                                                                | 8100          | 8100          |
| HAPI2       | <i>Hackelia pinetorum</i>                                                         | <i>Hackelia pinetorum</i>                              | Shady, moist ground                                                                          | 7000          | 9000          |
| PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i>                                        | <i>Haplopappus croceus</i>                             | Mountain meadows                                                                             | 9000          | 9000          |
| MAGR10      | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                            | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forests            | 6000          | 7000          |
| MAGRG       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                           | Dry mesas and rocky slopes                                                                   | 5400          | 8000          |
| SOPA4       | <i>Solidago parryi</i>                                                            | <i>Haplopappus parryi</i>                              | Mountain slopes; mixed conifer and spruce-fir slopes                                         | 8000          | 9500          |
| MAPIP4      | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> | Disturbed soil; juniper grassland, pinyon-juniper woodland                                   | 5400          | 6000          |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                              | Dry canyons and mesas                                                                        | 5400          | 7500          |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                    | Dry canyon slopes and mesas                                                                  | 5400          | 6000          |
| HEOB        | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                            | Canyons and mesas, slopes                                                                    | 5400          | 8000          |
| HEPU12      | <i>Hedeoma pulcherrima</i>                                                        | <i>Hedeoma pulcherrima</i>                             | Canyon slopes                                                                                | 5500          | 5500          |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>         | Moist canyon slopes, periodically flooded by lake waters                                     | 5400          | 5400          |
| HYHO        | <i>Hymenoxys hoopesii</i>                                                         | <i>Helenium hoopesii</i>                               | Mountain slopes; subalpine meadows                                                           | 9500          | 10000         |
| HEQU2       | <i>Helianthella quinquenervis</i>                                                 | <i>Helianthella quinquenervis</i>                      | Mountain slopes, mixed conifer forests                                                       | 9000          | 9500          |
| HEAN3       | <i>Helianthus annuus</i>                                                          | <i>Helianthus annuus</i>                               | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forests            | 9500          | 9000          |
| HEAR8       | <i>Helianthus arizonensis</i>                                                     | <i>Helianthus arizonensis</i>                          | Sandy soil                                                                                   | 5400          | 7000          |
| HEPE        | <i>Helianthus petiolaris</i>                                                      | <i>Helianthus petiolaris</i>                           | Disturbed soils; ponderosa pine, pinyon-juniper woodland                                     | 6000          | 7500          |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i>                          | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i> | Mesas                                                                                        | 7200          | 7250          |
| HEMA80      | <i>Heracleum maximum</i>                                                          | <i>Heracleum lanatum</i>                               | Along streams                                                                                | 7500          | 9000          |
| HEPA11      | <i>Heuchera parvifolia</i>                                                        | <i>Heuchera parvifolia</i>                             | Canyon sides, rocky mountain slopes; pinyon-juniper woodland, pine, mixed conifer, subalpine | 7000          | 10000         |
| HICA4       | <i>Hieracium cameum</i>                                                           | <i>Hieracium cameum</i>                                | Canyon slopes                                                                                | 7200          | 7200          |



## HABITAT CON'T

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|-------------|-------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|---------------|---------------|
| HIFE        | <i>Hieracium fendleri</i>                             | <i>Hieracium fendleri</i>                                 | Canyon bottoms; mixed conifer forests                                              | 7500          | 10000         |
| HIOD        | <i>Hierochloe odorata</i>                             | <i>Hierochloe odorata</i>                                 | Wet meadows                                                                        | 7000          | 12000         |
| PLJA        | <i>Pleuraphis jamesii</i>                             | <i>Hilaria jamesii</i>                                    | Mesa tops                                                                          | 6000          | 6500          |
| HODU        | <i>Holodiscus dumosus</i>                             | <i>Holodiscus dumosus</i>                                 | Mountain slopes; open mixed conifer forests, subalpine meadows                     | 8000          | 10000         |
| HOBR2       | <i>Hordeum brachyantherum</i>                         | <i>Hordeum brachyantherum</i>                             | Meadows                                                                            | 5000          | 10000         |
| HOJU        | <i>Hordeum jubatum</i>                                | <i>Hordeum jubatum</i>                                    | Disturbed soil, canyon bottoms; ponderosa pine forest                              | 6500          | 7500          |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>         | <i>Humulus americanus</i>                                 | Mostly along streams                                                               | 6000          | 7500          |
| HYFE        | <i>Hydrophyllum fendleri</i>                          | <i>Hydrophyllum fendleri</i>                              | Moist canyon bottoms                                                               | 7500          | 8500          |
| HYFI        | <i>Hymenopappus filifolius</i>                        | <i>Hymenopappus filifolius</i>                            | Canyons and mesas; juniper grassland, pinyon-juniper woodland                      | 5400          | 6000          |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i> | <i>Hymenopappus flavescens</i> var. <i>canotomentosus</i> | Gentle canyon slopes                                                               | 5500          | 5500          |
| HYNE        | <i>Hymenopappus newberryi</i>                         | <i>Hymenopappus newberryi</i>                             | Mountain slopes                                                                    | 7000          | 9000          |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                       | <i>Hymenopappus tenuifolius</i>                           | Disturbed soil; juniper grassland, pinyon-juniper woodland                         | 6000          | 6500          |
| TECA2       | <i>Tetradymia canescens</i>                           | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>              | Mesas and slopes                                                                   | 5400          | 7500          |
| TEACA       | <i>Tetranuris acaulis</i> var. <i>arizonica</i>       | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>            | Rocky slopes and mesas                                                             | 5400          | 7000          |
| TEACN       | <i>Tetranuris acaulis</i> var. <i>nana</i>            | <i>Hymenoxys argentea</i>                                 | Mesas, canyon; juniper grassland, pinyon-juniper, ponderosa pine and mixed conifer | 5400          | 7500          |
| TEBR        | <i>Tetranuris brandegei</i>                           | <i>Hymenoxys brandegei</i>                                | Mountain peaks                                                                     | 5400          | 7000          |
| TEIV        | <i>Tetranuris ivesiana</i>                            | <i>Hymenoxys ivesiana</i>                                 | Dry plains and mesas                                                               | 5400          | 6000          |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>  | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>      | Disturbed soil; juniper grassland, pinyon-juniper, ponderosa, and mixed conifer    | 6500          | 8000          |
| HYNI        | <i>Hyoscyamus niger</i>                               | <i>Hyoscyamus niger</i>                                   | Disturbed soil                                                                     | 7500          | 8500          |
| HYFO4       | <i>Hypericum formosum</i>                             | <i>Hypericum formosum</i>                                 | Moist canyons, damp meadows; mixed conifer forest                                  | 7000          | 9000          |
| IPCO3       | <i>Ipomoea coccinea</i>                               | <i>Ipomoea coccinea</i>                                   | Disturbed soil; pinyon-juniper woodland                                            | 6500          | 7000          |
| IPHE        | <i>Ipomoea hederacea</i>                              | <i>Ipomoea hederacea</i>                                  | Dry fields, disturbed soils                                                        | 5400          | 5400          |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>      | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>        | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forest   | 7000          | 9500          |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>     | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>           | Dry ground                                                                         | 6500          | 9000          |
| IPLA2       | <i>Ipomopsis laxiflora</i>                            | <i>Ipomopsis laxiflora</i>                                | Mesas                                                                              | 5500          | 6500          |
| IPLO2       | <i>Ipomopsis longiflora</i>                           | <i>Ipomopsis longiflora</i>                               | Disturbed soil; juniper grassland, pinyon-juniper woodland                         | 5400          | 6500          |
| IPMU3       | <i>Ipomopsis multiflora</i>                           | <i>Ipomopsis multiflora</i>                               | Dry slopes and mesas                                                               | 5400          | 6000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                        | Martin and Hutchins (1980)                        | Habitat                                                                       | Min Elev (ft) | Max Elev (ft) |
|-------------|---------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------|---------------|---------------|
| IPPU4       | <i>Ipomopsis pumila</i>                                 | <i>Ipomopsis pumila</i>                           | Dry mesas and canyons; pinyon-juniper woodland                                | 5400          | 6500          |
| IRMI        | <i>Iris missouriensis</i>                               | <i>Iris missouriensis</i>                         | Meadows, mountain slopes; subalpine meadows, mixed conifer forests            | 8000          | 10000         |
| IVAX        | <i>Iva axillaris</i>                                    | <i>Iva axillaris</i>                              | Disturbed soil, roadsides, near streams                                       | 5400          | 5500          |
| IVXA        | <i>Iva xanthifolia</i>                                  | <i>Iva xanthifolia</i>                            | Along streams, disturbed soil                                                 | 5400          | 7000          |
| JAAM        | <i>Jamesia americana</i>                                | <i>Jamesia americana</i>                          | Canyon sides, mountain slopes                                                 | 6500          | 9000          |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>             | <i>Juncus balticus</i> var. <i>montanus</i>       | Moist places, canyons and on slopes                                           | 5400          | 9000          |
| JUBU        | <i>Juncus bufonius</i>                                  | <i>Juncus bufonius</i>                            | Moist canyon bottoms; pinyon-juniper woodland                                 | 6000          | 6500          |
| JUCO2       | <i>Juncus confusus</i>                                  | <i>Juncus confusus</i>                            | Moist meadows                                                                 | 6500          | 8000          |
| JUDR        | <i>Juncus drummondii</i>                                | <i>Juncus drummondii</i>                          | Boggy moist canyon bottoms, meadows; ponderosa pine and mixed conifer forests | 7500          | 8500          |
| JUIN2       | <i>Juncus interior</i>                                  | <i>Juncus interior</i>                            | Moist canyon bottoms; ponderosa pine forest                                   | 6500          | 8000          |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>       | <i>Juncus longistylis</i> var. <i>longistylis</i> | Moist meadows                                                                 | 7000          | 9500          |
| JUMA4       | <i>Juncus marginatus</i>                                | <i>Juncus marginatus</i>                          | Moist ground                                                                  | 5400          | 5400          |
| JUME4       | <i>Juncus mexicanus</i>                                 | <i>Juncus mexicanus</i>                           | Moist, often alkaline soil                                                    | 5400          | 5400          |
| JUTE        | <i>Juncus tenuis</i>                                    | <i>Juncus tenuis</i>                              | Moist canyon slopes and wet areas on mesas                                    | 5500          | 7200          |
| JUTO        | <i>Juncus torreyi</i>                                   | <i>Juncus torreyi</i>                             | Moist ground                                                                  | 5400          | 8000          |
| JUXI        | <i>Juncus xiphioides</i>                                | <i>Juncus xiphioides</i>                          | Moist canyon bottoms, canyon slopes and mountain slopes                       | 5360          | 9700          |
| JUCO6       | <i>Juniperus communis</i>                               | <i>Juniperus communis</i>                         | Mountain slopes, canyon bottoms; ponderosa pine and mixed conifer forests     | 7000          | 10000         |
| JUDE2       | <i>Juniperus deppeana</i>                               | <i>Juniperus deppeana</i>                         | Dry, often rocky slopes                                                       | 6500          | 8000          |
| JUMO        | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                       | Mesas and canyons                                                             | 5400          | 7500          |
| JUSC2       | <i>Juniperus scopulorum</i>                             | <i>Juniperus scopulorum</i>                       | Mountain slopes, canyon bottoms; ponderosa pine and mixed conifer forests     | 7000          | 8500          |
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>                  | Dry plains                                                                    | 5400          | 6500          |
| KOSC        | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                            | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest                | 6000          | 7000          |
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                          | Canyon bottoms, mesas tops, mountain slopes                                   | 6500          | 9500          |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                             | Moist canyon bottoms                                                          | 7200          | 7200          |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                         | Mesas, canyons; pinyon-juniper woodland, ponderosa pine forest                | 5400          | 7500          |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                         | Moist canyon bottoms                                                          | 6350          | 6450          |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                       | Open slopes and meadows                                                       | 5400          | 8000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                   | Habitat                                                                           | Min Elev (ft) | Max Elev (ft) |
|-------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------|---------------|---------------|
| LALU        | <i>Lactuca ludoviciana</i>                           | <i>Lactuca ludoviciana</i>                   | Moist ground                                                                      | 5400          | 6000          |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>        | <i>Lactuca pulchella</i>                     | Disturbed soil                                                                    | 5400          | 8000          |
| LASE        | <i>Lactuca serriola</i>                              | <i>Lactuca serriola</i>                      | Disturbed soil; juniper grassland, pinyon-juniper woodland                        | 6000          | 6500          |
| LABI        | <i>Lactuca biennis</i>                               | <i>Lactuca spicata</i>                       | Moist canyon bottoms                                                              | 6500          | 6500          |
| LASQ        | <i>Lappula squarrosa</i>                             | <i>Lappula echinata</i>                      | Disturbed soil, sandy soil                                                        | 5400          | 7000          |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i> | <i>Lappula redowskii</i>                     | Disturbed soil, sandy soil                                                        | 5400          | 9000          |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>     | <i>Lappula texana</i>                        | Disturbed soil                                                                    | 5400          | 6500          |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>   | <i>Lathyrus arizonicus</i>                   | Canyon bottoms, mountain slopes; ponderosa, mixed conifer, spruce-fir forests     | 7000          | 10000         |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>   | <i>Lathyrus leucanthus</i>                   | Meadows                                                                           | 7000          | 10500         |
| LEOR        | <i>Leersia oryzoides</i>                             | <i>Leersia oryzoides</i>                     | Wet canyon slopes, near springs                                                   | 5500          | 5500          |
| LEMI3       | <i>Lemna minor</i>                                   | <i>Lemna minor</i>                           | in water in canyons                                                               | 5400          | 8500          |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>        | <i>Lepidium medium</i> var. <i>pubescens</i> | Roadsides, disturbed soil                                                         | 5400          | 7500          |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>     | <i>Lepidium medium</i> var. <i>medium</i>    | Disturbed soil; juniper grassland, pinyon-juniper woodland, ponderosa pine forest | 5400          | 7500          |
| LEFE        | <i>Lesquerella fendleri</i>                          | <i>Lesquerella fendleri</i>                  | Rocky slopes and mesas, sometimes sandy soils                                     | 5400          | 7000          |
| LEIN3       | <i>Lesquerella intermedia</i>                        | <i>Lesquerella intermedia</i>                | Disturbed soil, slopes; juniper grassland, pinyon-juniper woodland                | 5400          | 6500          |
| LERE3       | <i>Lesquerella rectipes</i>                          | <i>Lesquerella rectipes</i>                  | Dry canyons and mesas; juniper grassland, pinyon-juniper woodland                 | 5400          | 6500          |
| CHER2       | <i>Chaetopappa ericoides</i>                         | <i>Leucelene ericoides</i>                   | Disturbed soil, dry canyons and mesas, pinyon-juniper woodland                    | 5400          | 7000          |
| LIPU        | <i>Liatris punctata</i>                              | <i>Liatris punctata</i>                      | Disturbed soil; ponderosa pine and mixed conifer forests                          | 7000          | 9000          |
| LIPO        | <i>Ligusticum porteri</i>                            | <i>Ligusticum porteri</i>                    | Moist canyon bottoms along streams; mixed conifer forests                         | 7000          | 8000          |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i>     | <i>Lilium umbellatum</i>                     | Moist canyon bottoms; mixed conifer forests                                       | 7500          | 8500          |
| LIAQ        | <i>Limosella aquatica</i>                            | <i>Limosella aquatica</i>                    | Marshy canyon bottoms                                                             | 6500          | 7000          |
| LIVU2       | <i>Linaria vulgaris</i>                              | <i>Linaria vulgaris</i>                      | Disturbed soil                                                                    | 6000          | 7000          |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>           | <i>Linum aristatum</i> var. <i>australe</i>  | Sandy places, mesas                                                               | 5400          | 8000          |
| LILE3       | <i>Linum lewisii</i>                                 | <i>Linum lewisii</i>                         | Dry canyons, mesas, usually disturbed soil                                        | 5400          | 10000         |
| LINE        | <i>Linum neomexicanum</i>                            | <i>Linum neomexicana</i>                     | Dry canyon bottoms and sides, mesa tops; juniper grassland, pinyon-juniper wood   | 5400          | 6500          |
| LIPU4       | <i>Linum puberulum</i>                               | <i>Linum puberulum</i>                       | Dry mesas and canyons                                                             | 5400          | 7500          |
| LIRI        | <i>Linum rigidum</i>                                 | <i>Linum rigidum</i> "complex"               | Dry canyon bottoms and slopes and mesas                                           | 6000          | 7850          |

## HABITAT CON'T

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|-------------|--------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------|---------------|
| LICO7       | <i>Lithospermum cobrense</i>                                             | <i>Lithospermum cobrense</i>                      | Wooded slopes                                                                                 | 5000          | 9000          |
| LIIN2       | <i>Lithospermum incisum</i>                                              | <i>Lithospermum incisum</i>                       | Canyons, mesas; pinyon-juniper woodland, ponderosa pine forest                                | 5400          | 7000          |
| LIMU3       | <i>Lithospermum multiflorum</i>                                          | <i>Lithospermum multiflorum</i>                   | Canyons and mountain slopes; ponderosa pine and mixed conifer forests                         | 7000          | 8000          |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>                           | <i>Lobelia cardinalis</i> subsp. <i>graminea</i>  | White Rock Canyon springs; pinyon-juniper woodland and Moist-wet                              | 5400          | 5400          |
| LOPE        | <i>Lolium perenne</i>                                                    | <i>Lolium perenne</i>                             | Meadows, disturbed soil                                                                       | 5400          | 6500          |
| LOIN5       | <i>Lonicera involucrata</i>                                              | <i>Lonicera involucrata</i>                       | Slopes, near streams; mixed conifer forest                                                    | 7500          | 10000         |
| LOWR        | <i>Lotus wrightii</i>                                                    | <i>Lotus wrightii</i>                             | Canyon bottoms, mesas tops; pinyon-juniper woodland, ponderosa pine forests                   | 6500          | 7500          |
| LUAL5       | <i>Lupinus X alpestris</i>                                               | <i>Lupinus alpestris</i>                          | Moist mountain meadows                                                                        | 7000          | 10000         |
| LUAM        | <i>Lupinus ammophilus</i>                                                | <i>Lupinus ammophilus</i>                         | Sandy soil                                                                                    | 6000          | 8000          |
| LUAR3       | <i>Lupinus argenteus</i>                                                 | <i>Lupinus argenteus</i>                          | Meadows and open woods                                                                        | 7000          | 10000         |
| LUBR2       | <i>Lupinus brevicaulis</i>                                               | <i>Lupinus brevicaulis</i>                        | Mesas                                                                                         | 6250          | 6250          |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                          | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> | Disturbed soils, canyon bottoms, roadsides; pinyon-juniper woodland, ponderosa, mix. conifer. | 6500          | 7500          |
| LUKI        | <i>Lupinus kingii</i>                                                    | <i>Lupinus kingii</i>                             | Disturbed soil; juniper grassland, pinyon-juniper woodland                                    | 6000          | 6500          |
| LUPU        | <i>Lupinus pusillus</i>                                                  | <i>Lupinus pusillus</i>                           | Dry mesas and sandy soils                                                                     | 5400          | 7500          |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>                         | <i>Lupinus rubricaulis</i>                        | Open slopes                                                                                   | 8000          | 9000          |
| LUPA4       | <i>Luzula parviflora</i>                                                 | <i>Luzula parviflora</i>                          | Moist woods and meadows                                                                       | 8000          | 11000         |
| LYPA        | <i>Lycium pallidum</i>                                                   | <i>Lycium pallidum</i>                            | Archeological ruins, talus slopes; juniper grassland, pinyon-juniper woodland                 | 5400          | 7000          |
| LYAM        | <i>Lycopus americanus</i>                                                | <i>Lycopus americanus</i>                         | Disturbed canyon bottoms and slopes, periodically flooded by lake waters                      | 5400          | 5400          |
| LYPH        | <i>Lycurus phleoides</i>                                                 | <i>Lycurus phleoides</i>                          | Dry canyon sides and bottoms; juniper grassland, pinyon-juniper, ponderosa pine               | 5400          | 8000          |
| PSAS2       | <i>Psilactis asteroides</i>                                              | <i>Machaeranthera amplifolia</i>                  | Restricted to rocky slopes                                                                    | 6000          | 7000          |
| MABI        | <i>Machaeranthera bigelovii</i>                                          | <i>Machaeranthera bigelovii</i>                   | Disturbed soil, roadsides                                                                     | 6000          | 9000          |
| MACA2       | <i>Machaeranthera canescens</i>                                          | <i>Machaeranthera canescens</i>                   | Mountain slopes, roadsides                                                                    | 7800          | 7900          |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                    | Sandy areas                                                                                   | 5400          | 5400          |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>               | Roadsides, disturbed soils                                                                    | 6000          | 6500          |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                   | Canyons                                                                                       | 5400          | 7000          |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                       | Sandy or rocky mesas and slopes                                                               | 5400          | 6000          |

## HABITAT CON'T

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|-------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------|---------------|---------------|
| MAMA13      | <i>Malaxis macrostachya</i>                        | <i>Malaxis soulei</i>                              | In dense ponderosa pine stands, shaded areas                               | 8000          | 9500          |
| MANE        | <i>Malva neglecta</i>                              | <i>Malva negelecta</i>                             | Disturbed soil, lawns                                                      | 5400          | 7500          |
| MAPA5       | <i>Malva parviflora</i>                            | <i>Malva parviflora</i>                            | Disturbed soil, lawns                                                      | 5400          | 7000          |
| MAWR2       | <i>Mammillaria wrightii</i>                        | <i>Mammillaria wrightii</i>                        | Canyons and mesas; juniper grassland                                       | 5400          | 6500          |
| MAVU        | <i>Marrubium vulgare</i>                           | <i>Marrubium vulgare</i>                           | Moist ground, disturbed soil                                               | 5000          | 7500          |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                 | <i>Maurandya antirrhiniflora</i>                   | Sandy soils, along Rio Grande                                              | 5400          | 7500          |
| MELU        | <i>Medicago lupulina</i>                           | <i>Medicago lupulina</i>                           | Disturbed soil; juniper grassland, pinyon-juniper woodland                 | 5400          | 7500          |
| MESA        | <i>Medicago sativa</i>                             | <i>Medicago sativa</i>                             | Open slopes; spruce-fir forest                                             | 5400          | 10000         |
| MELE2       | <i>Melampodium leucanthum</i>                      | <i>Melampodium leucanthum</i>                      | Rocky dry canyons                                                          | 5400          | 6000          |
| MEPO        | <i>Melica porteri</i>                              | <i>Melica porteri</i>                              | Moist canyon bottoms; ponderosa pine forest                                | 7000          | 7500          |
| MEOF        | <i>Melilotus officinalis</i>                       | <i>Melilotus albus</i>                             | Disturbed soil                                                             | 5400          | 8000          |
| MEIN2       | <i>Melilotus indicus</i>                           | <i>Melilotus indicus</i>                           | Fields and disturbed soils                                                 | 5400          | 7000          |
| MEOF        | <i>Melilotus officinalis</i>                       | <i>Melilotus officinalis</i>                       | Disturbed soil; juniper grassland, ponderosa pine and mixed conifer forest | 5400          | 8500          |
| MESC        | <i>Menodora scabra</i>                             | <i>Menodora scabra</i>                             | Dry canyon bottoms                                                         | 5700          | 5700          |
| MEAR4       | <i>Mentha arvensis</i>                             | <i>Mentha arvensis</i>                             | Moist ground                                                               | 5400          | 9000          |
| MEAL6       | <i>Mentzelia albicaulis</i>                        | <i>Mentzelia albicaulis</i>                        | Disturbed soil; juniper grassland, pinyon-juniper woodland                 | 5400          | 7000          |
| MELA        | <i>Mentzelia laciniata</i>                         | <i>Mentzelia laciniata</i>                         | Mesas and canyons                                                          | 5400          | 6500          |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>          | <i>Mentzelia nuda</i> var. <i>stricta</i>          | Mesas                                                                      | 5400          | 6500          |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>         | <i>Mentzelia pumila</i> var. <i>integra</i>        | Mesas                                                                      | 5400          | 6500          |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>    | <i>Mentzelia pumila</i> var. <i>multiflora</i>     | Sandy soil                                                                 | 5400          | 8000          |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i> | <i>Mentzelia pumila</i> var. <i>pumila</i>         | Disturbed soil roadsides, trails                                           | 5400          | 8000          |
| MERU        | <i>Mentzelia rusbyi</i>                            | <i>Mentzelia rusbyi</i>                            | Moist mountain slopes                                                      | 5000          | 8000          |
| MEBR        | <i>Mertensia brevistyla</i>                        | <i>Mertensia brevistyla</i>                        | Canyons, moist places; ponderosa and mixed conifer forests                 | 7000          | 8000          |
| MEFR2       | <i>Mertensia franciscana</i>                       | <i>Mertensia franciscana</i>                       | Moist ground, canyon bottoms; mixed conifer forests                        | 7500          | 8500          |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i>    | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   | Canyon bottoms, mountain sides; pinyon-juniper woodland , ponderosa pine   | 6500          | 9000          |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | Canyons, mountain slopes, meadows                                          | 6500          | 10000         |
| URLI2       | <i>Uropappus linearifolius</i>                     | <i>Microseris linearifolia</i>                     | Canyon bottoms; juniper grassland                                          | 5400          | 6000          |
|             |                                                    | <i>Microseris minimus</i>                          | Canyon bottoms; juniper grassland                                          | 5400          | 6000          |

## HABITAT CON'T

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|-------------|------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------|---------------|
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                             | <i>Microsteris gracilis</i>                    | Canyon slopes, periodically flooded by lake waters                                                | 5500          | 5500          |
| MIFL2       | <i>Mimulus floribundus</i>                                             | <i>Mimulus floribundus</i>                     | Moist ground, along streams                                                                       | 5400          | 6500          |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                           | <i>Mimulus glabratus</i> var. <i>fremontii</i> | Shallowwater                                                                                      | 5400          | 7000          |
| MIGU        | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                        | Moist ground, along streams                                                                       | 8000          | 8500          |
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                      | Mesas and canyons                                                                                 | 5400          | 6500          |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                    | Canyon sides and mesas tops; usually beneath junipers or pinyons                                  | 5400          | 7000          |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                  | Canyon sides; juniper grassland                                                                   | 5400          | 6000          |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                    | Mesas and canyons                                                                                 | 5000          | 8500          |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                    | Canyon bottoms, open meadows                                                                      | 6500          | 9000          |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                       | Dry disturbed soil                                                                                | 6500          | 7500          |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                    | Mountain slopes; ponderosa pine and mixed conifer forests                                         | 7500          | 9000          |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                    | Dry canyons and mesas; juniper grassland, pinyon-juniper woodland                                 | 5400          | 6500          |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                | Mesas                                                                                             | 5400          | 6000          |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                 | Rocky soil                                                                                        | 5400          | 8000          |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                   | Moist ground                                                                                      | 5400          | 6500          |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                    | Mesa tops, canyon bottoms, mountain slopes, disturbed areas; pinyon-juniper, pine, mixed conifer. | 7500          | 10000         |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                 | Rocky slopes                                                                                      | 5400          | 7500          |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                    | Rocky slopes and mesas                                                                            | 5400          | 6500          |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                | Rocky ground                                                                                      | 9000          | 9500          |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                   | Moist woods and meadows                                                                           | 5400          | 8000          |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                     | Canyon bottoms and slopes and grass drainages on mesas                                            | 5500          | 6750          |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia torreyi</i>                    | Mesa tops                                                                                         | 5400          | 6500          |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolfii</i>                     | Mountain meadows                                                                                  | 9200          | 9200          |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                   | Canyon bottoms, mesa tops; ponderosa pine and mixed conifer forests                               | 7500          | 8000          |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                        | Mesas, adjacent to ant piles in disturbed soils                                                   | 5400          | 6000          |
|             |                                                                        | <i>Myosurus minimus</i>                        | Moist, wet places; juniper grassland                                                              | 5400          | 5400          |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                         | Open sometimes, gravelly slopes                                                                   | 5400          | 8000          |
| NAHI        | <i>Nama hispidum</i>                                                   | <i>Nama hispidum</i> var. <i>hispidum</i>      | Dry mesas                                                                                         | 5400          | 7000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                    | Martin and Hutchins (1980)                         | Habitat                                                                    | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------|---------------|---------------|
| NECA2       | <i>Nepeta cataria</i>                               | <i>Nepeta cataria</i>                              | Disturbed soil                                                             | 5400          | 8000          |
| NIAT        | <i>Nicotiana attenuata</i>                          | <i>Nicotiana attenuata</i>                         | Sandy soil near streams and washes                                         | 5400          | 7000          |
| NOMI        | <i>Nolina microcarpa</i>                            | <i>Nolina microcarpa</i>                           | Moist canyon bottoms and slopes                                            | 6100          | 6100          |
| NOTHO       | <i>Notholaena</i>                                   | <i>Notholaena spp.</i>                             | pinyon-juniper woodland                                                    | 5400          | 7000          |
| NOST        | <i>Notholaena standleyi</i>                         | <i>Notholaena standleyi</i>                        | Canyon slopes, on cliffs and boulders                                      | 6000          | 6000          |
| OEAL        | <i>Oenothera albicaulis</i>                         | <i>Oenothera albicaulis</i>                        | Disturbed soil, roadsides                                                  | 6000          | 7500          |
| OECE2       | <i>Oenothera cespitosa</i>                          | <i>Oenothera caespitosa</i>                        | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest             | 6500          | 7000          |
| OCEM3       | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i> | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>   | Mesas and canyons                                                          | 6500          | 7000          |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>    | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  | Rocky slopes                                                               | 5400          | 8500          |
| OECO2       | <i>Oenothera coronopifolia</i>                      | <i>Oenothera coronopifolia</i>                     | Open slopes                                                                | 5400          | 8000          |
| OEFL        | <i>Oenothera flava</i>                              | <i>Oenothera flava</i>                             | Moist meadows                                                              | 5400          | 10000         |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>          | <i>Oenothera hookeri</i>                           | Disturbed soil, canyon bottoms; juniper grassland, pinyon-juniper woodland | 6000          | 8000          |
| OELA        | <i>Oenothera laciniata</i>                          | <i>Oenothera laciniata</i> var. <i>laciniata</i>   | Mesas and slopes                                                           | 6000          | 8000          |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>        | <i>Oenothera pallida</i> subsp. <i>pallida</i>     | Sand, disturbed soil                                                       | 5400          | 5400          |
| OEPR        | <i>Oenothera primiveris</i>                         | <i>Oenothera primiveris</i>                        | Mesas and canyons                                                          | 5400          | 5400          |
| OPCL        | <i>Opuntia clavata</i>                              | <i>Opuntia clavata</i>                             | Sandy river banks                                                          | 5400          | 5400          |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>        | <i>Opuntia erinacea</i> var. <i>erinacea</i>       | Sandy or gravelly canyons                                                  | 5400          | 7000          |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>       | <i>Opuntia erinacea</i> var. <i>utahensis</i>      | Sandy or gravelly canyons                                                  | 5400          | 6500          |
| OPIM        | <i>Opuntia imbricata</i>                            | <i>Opuntia imbricata</i>                           | Gravelly or sandy slopes, archeological sites, pinyon-juniper woodland     | 5400          | 6000          |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>    | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   | Rocky-sandy mesas; juniper grassland                                       | 5400          | 6500          |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>  | <i>Opuntia phaeacantha</i> var. <i>discata</i>     | Sandy hills, valleys                                                       | 5400          | 5400          |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>  | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> | Rocky canyons, sandy banks of Rio Grande; pinyon-juniper woodland          | 5400          | 6000          |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>  | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | Dry sandy soils; pinyon-juniper woodland, ponderosa pine forest            | 5400          | 8000          |
| ORFA        | <i>Orobancha fasciculata</i>                        | <i>Orobancha fasciculata</i> var. <i>lutea</i>     | Under snakeweed and sagebrush; juniper woodland                            | 5400          | 6000          |
| ORLU        | <i>Orobancha ludoviciana</i>                        | <i>Orobancha ludoviciana</i>                       | Canyon bottoms                                                             | 6000          | 6000          |
| ORLUM       | <i>Orobancha ludoviciana</i> ssp. <i>multiflora</i> | <i>Orobancha multiflora</i>                        | Sandy soils                                                                | 5400          | 6500          |
| ORLU2       | <i>Orthocarpus luteus</i>                           | <i>Orthocarpus luteus</i>                          | Open meadows                                                               | 7500          | 9500          |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                    | <i>Orthocarpus purpureo-albus</i>                  | Mesa tops and open canyon bottoms; pinyon-juniper woodland                 | 6500          | 7000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                     | Habitat                                                                          | Min Elev (ft) | Max Elev (ft) |
|-------------|-------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------|---------------|---------------|
| ORAS        | <i>Oryzopsis asperifolia</i>                                | <i>Oryzopsis asperifolia</i>                   | Canyon bottoms; mixed conifer forests                                            | 8000          | 10000         |
| ACHY        | <i>Achnatherum hymenoides</i>                               | <i>Oryzopsis hymenoides</i>                    | Sandy areas; juniper grassland, pinyon-juniper woodland                          | 5400          | 7000          |
| PIMI7       | <i>Piptatherum micranthum</i>                               | <i>Oryzopsis micrantha</i>                     | Canyons and mesas; juniper grassland, pinyon-juniper woodland                    | 5400          | 7000          |
| OSDE        | <i>Osmorhiza depauperata</i>                                | <i>Osmorhiza obtusa</i>                        | Canyon bottoms, mountain slopes; mixed conifer forests                           | 7500          | 9500          |
| OXAL2       | <i>Oxalis alpina</i>                                        | <i>Oxalis metcalfei</i>                        | Shaded slopes                                                                    | 6000          | 9000          |
| OXVI        | <i>Oxalis violacea</i>                                      | <i>Oxalis violacea</i>                         | Canyon bottoms, mountain slopes, meadows; ponderosa pine and mixed conifer       | 7500          | 9500          |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                      | Plains and hills                                                                 | 5400          | 7000          |
| MILI3       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i> | Dry or disturbed soil                                                            | 5400          | 8000          |
| OXFE        | <i>Oxypolis fendleri</i>                                    | <i>Oxypolis fendleri</i>                       | Marshy ground near streams                                                       | 7000          | 10000         |
| OXLA3       | <i>Oxytropis lambertii</i>                                  | <i>Oxytropis lambertii</i>                     | Mesas, roadside                                                                  | 6500          | 6600          |
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                   | Canyons, mountain slopes; ponderosa pine forest and moist ground                 | 6500          | 7000          |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                        | Canyon bottoms and slopes                                                        | 6200          | 7200          |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i> | Disturbed soil, roadsides; juniper grassland, pinyon-juniper woodland, ponderosa | 5400          | 7000          |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                          | Dry canyon slopes                                                                | 5600          | 5600          |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                         | Mesas                                                                            | 5400          | 6000          |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                       | Disturbed soil                                                                   | 5400          | 7000          |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                         | Along banks of the Rio Grande; juniper grassland                                 | 5400          | 6000          |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                   | Agricultural areas                                                               | 5400          | 6000          |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                    | Moist ground                                                                     | 5400          | 5400          |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i> .                      | Canyon bottoms; ponderosa pine forest                                            | 5400          | 7500          |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                      | Dry canyon slopes                                                                | 5800          | 5800          |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                  | Springs and along rivers; juniper grassland, pinyon-juniper woodland             | 5400          | 6000          |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                     | Mesas and slopes                                                                 | 5400          | 7000          |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                          | Mesas; juniper grassland                                                         | 5400          | 6000          |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                       | Mountain slopes; mixed conifer forests                                           | 8000          | 9500          |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>               | Mesas; pinyon-juniper woodland                                                   | 6000          | 7000          |



## HABITAT CON'T

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|-------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------|---------------|---------------|
| PEAT2       | <i>Pellaea atropurpurea</i>                            | <i>Pellaea atropurpurea</i>                              | Rocky areas, usually along cliffs                                          | 5400          | 7000          |
| ARFE5       | <i>Argyrochosma fendleri</i>                           | <i>Pellaea fendleri</i>                                  | Under rocky overhanging cliffs; juniper woodland                           | 5400          | 6000          |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>    | <i>Pellaea limitanea</i>                                 | Rocky areas, especially cliffs and ledges                                  | 5400          | 7000          |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>         | <i>Pellaea longimucronata</i>                            | Rocky areas, especially along cliffs                                       | 5000          | 7000          |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>          | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>          | Disturbed soil, roadsides, mesas                                           | 6500          | 9500          |
| PEEA        | <i>Penstemon eatonii</i>                               | <i>Penstemon eatonii</i>                                 | Canyons                                                                    | 6000          | 7000          |
| PEFE        | <i>Penstemon fendleri</i>                              | <i>Penstemon fendleri</i>                                | Mesas and canyons                                                          | 5400          | 8000          |
| PEJA        | <i>Penstemon jamesii</i>                               | <i>Penstemon jamesii</i>                                 | Dry canyons; juniper grassland, pinyon-juniper woodland                    | 5400          | 6500          |
| PELE2       | <i>Penstemon lentus</i>                                | <i>Penstemon lentus</i>                                  | Dry hills, mesas                                                           | 5500          | 8000          |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i> | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> | Slopes; mixed conifer forests                                              | 7500          | 8500          |
| PEOL        | <i>Penstemon oliganthus</i>                            | <i>Penstemon oliganthus</i>                              | Meadows, rocky slopes                                                      | 8000          | 9000          |
| PERY        | <i>Penstemon rydbergii</i>                             | <i>Penstemon rydbergii</i>                               | Moist meadows, open groves                                                 | 7000          | 9000          |
| PESE11      | <i>Penstemon secundiflorus</i>                         | <i>Penstemon secundiflorus</i>                           | Dry canyons and mesas; juniper grassland, pinyon-juniper woodland          | 5400          | 6500          |
| PEVI4       | <i>Penstemon virgatus</i>                              | <i>Penstemon virgatus</i>                                | Dry canyons, mesas; juniper grassland, pinyon-juniper woodland             | 5400          | 7500          |
| PEWH        | <i>Penstemon whippleanus</i>                           | <i>Penstemon whippleanus</i>                             | Ski slopes, meadows, canyons; mixed conifer forests, subalpine meadows     | 9000          | 10000         |
| PECA10      | <i>Pericome caudata</i>                                | <i>Pericome caudata</i>                                  | Disturbed soil                                                             | 7000          | 8500          |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>               | <i>Petalostemum candidum</i>                             | Disturbed soil; juniper grassland, pinyon-juniper woodland, ponderosa pine | 6000          | 8000          |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>             | <i>Petalostemum compactum</i>                            | Disturbed soil; pinyon-juniper woodland                                    | 6000          | 6500          |
| DAEX2       | <i>Dalea exigua</i>                                    | <i>Petalostemum exile</i>                                | Disturbed soil; pinyon-juniper woodland                                    | 6500          | 7000          |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>             | <i>Petalostemum purpureum</i>                            | Disturbed soil; ponderosa pine forest                                      | 7000          | 7500          |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>               | <i>Petalostemum villosum</i>                             | Mesas and canyons                                                          | 5400          | 6000          |
| PHCO        | <i>Phacelia coerulea</i>                               | <i>Phacelia coerulea</i>                                 | Canyon slopes and mesas                                                    | 6400          | 6400          |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>        | <i>Phacelia corrugata</i>                                | Mesas, disturbed soil, sandy soil                                          | 5400          | 7000          |
| PHHE2       | <i>Phacelia heterophylla</i>                           | <i>Phacelia heterophylla</i>                             | Meadows, mountain slopes; subalpine meadows, spruce-fir forest             | 9500          | 10000         |
| PHIN        | <i>Phacelia integrifolia</i>                           | <i>Phacelia integrifolia</i>                             | Disturbed soil                                                             | 6500          | 7000          |
| PHEG        | <i>Phacelia egena</i>                                  | <i>Phacelia magellanica</i>                              | Rich moist soil in coniferous forests, along streams                       | 5000          | 9000          |
| PHNE3       | <i>Phacelia neomexicana</i>                            | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>      | Forested slopes                                                            | 7000          | 9000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                                | Habitat                                                                           | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|---------------|
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            | Dry mesas and canyons, sandy soils                                                | 5400          | 6000          |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              | Stream banks                                                                      | 5400          | 6000          |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | Moist canyon bottoms; rocky slopes                                                | 6500          | 8000          |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     | Meadows                                                                           | 8000          | 11500         |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    | Canyon bottoms, mountain slopes, meadows; mixed conifer forest, subalpine meadows | 7500          | 10000         |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   | Open slopes                                                                       | 5400          | 6500          |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             | Mostly parasitic on junipers                                                      | 5400          | 7000          |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                | Wet canyon slopes                                                                 | 5400          | 5550          |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           | Disturbed soil; juniper grassland, pinyon-juniper woodland                        | 6000          | 7000          |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        | Slopes, canyons and mesas                                                         | 5400          | 7000          |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 | Disturbed soil                                                                    | 5400          | 6500          |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               | Canyon bottoms and sides; mixed conifer forests                                   | 7500          | 8000          |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | Mountain slopes; mixed conifer and spruce fir forests                             | 8500          | 11000         |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | Canyon sides and mountain slopes; mixed conifer forests                           | 8000          | 10000         |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | Mesas and canyons; often with juniper                                             | 5400          | 7500          |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     | Mountain slopes, canyon sides; mixed conifer forests                              | 8000          | 10000         |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | Canyon bottoms, canyon sides, mountain slopes                                     | 5400          | 9500          |
| PLAR2       | <i>Plantago argyraea</i>                                  | <i>Plantago argyraea</i>                                  | Slopes and woods                                                                  | 6000          | 7000          |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     | Disturbed soil, canyon bottoms; juniper grassland, pinyon-juniper woodland        | 7500          | 8000          |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   | Disturbed soil; juniper grassland, pinyon-juniper woodland                        | 5400          | 7000          |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          | Disturbed soil                                                                    | 5400          | 8500          |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      | Meadows                                                                           | 5400          | 7000          |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      | Disturbed soil                                                                    | 5400          | 9000          |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    | Meadows and canyons                                                               | 6000          | 11000         |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       | Moist meadows                                                                     | 5400          | 8000          |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    | Rocky slopes and canyons                                                          | 5500          | 9500          |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     | Moist meadows                                                                     | 7000          | 9000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                                | Habitat                                                                     | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------|---------------|---------------|
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      | Meadows                                                                     | 5000          | 11000         |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    | Mountain summits                                                            | 10000         | 11000         |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | Mountain slopes, canyons                                                    | 5400          | 9500          |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             | Sandy canyons and arroyos; juniper grassland                                | 6000          | 6500          |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | Moist woods and meadows                                                     | 7000          | 10000         |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | Floating in water                                                           | 6500          | 8500          |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                | Disturbed soil, mostly along roadsides                                      | 5400          | 9500          |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             | Boggy mountain meadows                                                      | 8950          | 9000          |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              | Disturbed soil, cultivated soil                                             | 5400          | 8000          |
| PODO4       | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                | Dry meadows                                                                 | 7000          | 8500          |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>          | <i>Polygonum montanum</i>                                 | Mesas                                                                       | 7300          | 7300          |
| POPE3       | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                               | Moist ground, canyon bottoms; juniper grassland, pinyon-juniper woodland    | 5400          | 8500          |
| PORA3       | <i>Polygonum ramosissimum</i>                             | <i>Polygonum ramosissimum</i>                             | Disturbed soil; mixed conifer forest                                        | 7000          | 8500          |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i>         | <i>Polygonum sawatchense</i>                              | Meadows in mountains                                                        | 6500          | 8000          |
| POMO5       | <i>Polypogon monspeliensis</i>                            | <i>Polypogon monspeliensis</i>                            | Dry canyons; juniper grassland                                              | 5400          | 6000          |
| POAN3       | <i>Populus angustifolia</i>                               | <i>Populus angustifolia</i>                               | Moist canyon bottoms; pinyon-juniper woodland, ponderosa pine forest        | 5400          | 6500          |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>            | <i>Populus fremontii</i> var. <i>wislizenii</i>           | River banks, streams sides                                                  | 5400          | 6500          |
| POTR5       | <i>Populus tremuloides</i>                                | <i>Populus tremuloides</i> var. <i>aurea</i>              | Canyon bottoms, mountain slopes; mixed conifer forests or pure stands       | 7000          | 10000         |
| POOL        | <i>Portulaca oleracea</i>                                 | <i>Portulaca oleracea</i>                                 | Disturbed soil, cultivated areas                                            | 5400          | 8000          |
| ARAN7       | <i>Argentina anserina</i>                                 | <i>Potentilla anserina</i>                                | Moist ground, particularly banks or Rio Grande, riparian areas, meadows     | 5400          | 9500          |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>          | <i>Potentilla arguta</i> subsp. <i>convallaria</i>        | Meadows                                                                     | 6500          | 9000          |
| POCO13      | <i>Potentilla concinna</i>                                | <i>Potentilla concinna</i>                                | Dry mesas                                                                   | 7000          | 11000         |
| POCR4       | <i>Potentilla crinita</i>                                 | <i>Potentilla crinita</i>                                 | Meadows                                                                     | 7000          | 8000          |
| PEFL15      | <i>Pentaphylloides floribunda</i>                         | <i>Potentilla fruticosa</i>                               | Open meadows; spruce-fir forest, subalpine meadows                          | 8000          | 10000         |
| POHI6       | <i>Potentilla hippiana</i>                                | <i>Potentilla hippiana</i>                                | Moist canyon bottoms, mountain slopes; mixed conifer forests                | 8000          | 8500          |
| PONO3       | <i>Potentilla norvegica</i>                               | <i>Potentilla norvegica</i>                               | Moist canyon bottoms, marshy areas; pinyon-juniper woodland, ponderosa pine | 6500          | 7000          |
| POPE8       | <i>Potentilla pennsylvanica</i>                           | <i>Potentilla pennsylvanica</i>                           | Meadows                                                                     | 7000          | 9500          |

## HABITAT CON'T

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|-------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------|---------------|
| POPU9       | <i>Potentilla pulcherrima</i>                     | <i>Potentilla pulcherrima</i>                     | Canyon bottoms, mountain slopes; mixed conifer forests                                            | 7500          | 10000         |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>   | <i>Potentilla thurberi</i> var. <i>thurberi</i>   | Along streams                                                                                     | 7000          | 9000          |
| PRRU        | <i>Primula rusbyi</i>                             | <i>Primula rusbyi</i>                             | Rocky ledges, bogs, rocky places                                                                  | 10000         | 11000         |
| PRVU        | <i>Prunella vulgaris</i>                          | <i>Prunella vulgaris</i>                          | Moist ground, canyon bottoms; ponderosa pine and mixed conifer forests                            | 7000          | 8000          |
| PRAM        | <i>Prunus americana</i>                           | <i>Prunus americana</i>                           | Slopes, valleys, along streams                                                                    | 5400          | 7000          |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>   | <i>Prunus emarginata</i> var. <i>emarginata</i>   | Slopes                                                                                            | 6500          | 9000          |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>  | <i>Prunus virginiana</i> var. <i>melanocarpa</i>  | Along streams, rocky canyons; pinyon-juniper woodland, ponderosa pine forest                      | 6000          | 7500          |
| PSMO        | <i>Pseudocymopterus montanus</i>                  | <i>Pseudocymopterus montanus</i>                  | Canyons, mesas, mountain slopes; meadows; pinyon-juniper woodland, pine, mixed conifer, subalpine | 7000          | 10000         |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>   | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>   | Canyon sides, canyon bottoms, mountain slopes; mixed conifer forests                              | 6500          | 10000         |
| PSTA        | <i>Psilostrophe tagnetina</i>                     | <i>Psilostrophe tagnetina</i>                     | Dry canyon bottoms, mesa tops; juniper grassland, pinyon-juniper grassland                        | 5400          | 6500          |
| PEHYH       | <i>Pediomeles hypogaea</i> var. <i>hypogaea</i>   | <i>Psoralea hypogaea</i>                          | Dry canyons                                                                                       | 5400          | 5500          |
| PSLA3       | <i>Psoralidium lanceolatum</i>                    | <i>Psoralea lanceolata</i>                        | Dry mesas                                                                                         | 5400          | 7500          |
| PSTE5       | <i>Psoralidium tenuiflorum</i>                    | <i>Psoralea tenuiflora</i>                        | Dry mesas                                                                                         | 5400          | 7500          |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> | Canyon sides; juniper grassland, pinyon-juniper woodland, ponderosa pine for.                     | 6500          | 7000          |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>  | <i>Pteridium aquilinum</i> var. <i>pubescens</i>  | Shaded canyon bottoms, mountain slopes; mixed conifer forests                                     | 7500          | 8500          |
| PTAN2       | <i>Pterospora andromedea</i>                      | <i>Pterospora andromedea</i>                      | Mesa tops, mountain sides; ponderosa pine forest                                                  | 7000          | 7500          |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>    | <i>Pulsatilla ludoviciana</i>                     | Canyon bottoms, mesas tops; ponderosa pine forest                                                 | 6500          | 7500          |
| PUTR2       | <i>Purshia tridentata</i>                         | <i>Purshia tridentata</i>                         | Old field                                                                                         | 7500          | 7500          |
| PYAS        | <i>Pyrola asarifolia</i>                          | <i>Pyrola asarifolia</i>                          | Moist canyon bottoms                                                                              | 7450          | 7450          |
| PYCH        | <i>Pyrola chlorantha</i>                          | <i>Pyrola chlorantha</i>                          | Mountain slopes, canyon bottoms; mixed conifer forests                                            | 7500          | 9500          |
| PYEL        | <i>Pyrola elliptica</i>                           | <i>Pyrola elliptica</i>                           | Moist woods                                                                                       | 7000          | 10000         |
| PYMI        | <i>Pyrola minor</i>                               | <i>Pyrola minor</i>                               | Canyon bottoms, mountain slopes; mixed conifer forests                                            | 7500          | 8500          |
| PYPI2       | <i>Pyrola picta</i>                               | <i>Pyrola picta</i>                               | Mountain slopes                                                                                   | 9000          | 9000          |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                   | <i>Pyrrhopappus multicaulis</i>                   | Moist canyon slopes                                                                               | 5500          | 5500          |

## HABITAT CON'T

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|-------------|-----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------|---------------|
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               | Canyons, mountain slopes, mesas; pinyon-juniper woodland, ponderosa and mixed conifer              | 6500          | 8500          |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 | Dry canyon sides and bottoms                                                                       | 5400          | 6000          |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                | Rocky slopes                                                                                       | 5400          | 7000          |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             | Rocky slopes                                                                                       | 5400          | 8000          |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               | Canyon bottom and mesas; pinyon-juniper woodland, ponderosa pine forest                            | 6500          | 7500          |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              | Mountain slopes, meadow edges; mixed conifer forests                                               | 8000          | 9500          |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           | Moist canyon bottoms                                                                               | 6850          | 6850          |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   | Ponds and streams                                                                                  | 5400          | 8500          |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       | Canyon bottoms, meadows, moist slopes; pine and mixed conifer, subalpine                           | 7500          | 10000         |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> | Moist soil, along streams                                                                          | 5000          | 8000          |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           | Canyon bottoms                                                                                     | 5400          | 8000          |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            | Moist woods                                                                                        | 6000          | 8500          |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          | Moist soil                                                                                         | 5400          | 7500          |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   | Wet canyon slopes, periodically flooded by lake waters                                             | 5360          | 5500          |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           | River banks, disturbed areas; juniper grassland, pinyon-juniper woodland                           | 5400          | 6000          |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               | River banks, disturbed soil; juniper grassland, pinyon-juniper woodland                            | 5400          | 6500          |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    | Moist soil along streams, rocky canyon walls                                                       | 5400          | 8000          |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i>        | <i>Rhus radicans</i>                                  | Canyon bottoms, springs in dry canyons; pinyon-juniper woodlands, ponderosa pine                   | 5400          | 8000          |
| RHTR        | <i>Rhus trilobata</i>                                     | <i>Rhus trilobata</i>                                 | Canyon bottoms, mesas; juniper grassland, pinyon juniper woodland                                  | 6500          | 7000          |
| RICE        | <i>Ribes cereum</i>                                       | <i>Ribes cereum</i>                                   | Canyons, meadows, forest openings; juniper grassland, pinyon-juniper woodland, pine, mixed conifer | 5400          | 8000          |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>               | <i>Ribes inebrians</i>                                | Canyons, rocky slopes                                                                              | 7000          | 9000          |
| RIIN2       | <i>Ribes inerne</i>                                       | <i>Ribes inerne</i>                                   | Moist woods                                                                                        | 7000          | 9000          |
| RILE        | <i>Ribes leptanthum</i>                                   | <i>Ribes leptanthum</i>                               | Canyon sides and mountain slopes; mixed conifer forests                                            | 6500          | 8000          |
| RIMO2       | <i>Ribes montigenum</i>                                   | <i>Ribes montigenum</i>                               | Open slopes                                                                                        | 7500          | 11000         |

## HABITAT CON'T

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|-------------|--------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|---------------|
| RIPI        | <i>Ribes pinetorum</i>                           | <i>Ribes pinetorum</i>                         | Slopes; mixed conifer and spruce-fir forests                                            | 7000          | 11500         |
| RIWO        | <i>Ribes wolfii</i>                              | <i>Ribes wolfii</i>                            | Mixed conifer and spruce-fir forests, slopes                                            | 9500          | 10000         |
| RONE        | <i>Robinia neomexicana</i>                       | <i>Robinia neomexicana</i>                     | Canyons, open woods, and roadsides                                                      | 6000          | 9500          |
| ROIS2       | <i>Rorippa islandica</i>                         | <i>Rorippa islandica</i>                       | Streams                                                                                 | 5400          | 9500          |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>              | <i>Rorippa nasturtium-aquaticum</i>            | Running water; juniper grassland                                                        | 5400          | 6000          |
| ROTE2       | <i>Rorippa teres</i>                             | <i>Rorippa obtusa</i>                          | Wet ground                                                                              | 5400          | 9000          |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>fernaldiana</i> | <i>Rorippa palustris</i> subsp. <i>glabra</i>  | Moist canyon bottoms                                                                    | 5360          | 5900          |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>     | <i>Rorippa palustris</i> subsp. <i>hispida</i> | Disturbed canyon bottoms, periodically flooded by lake waters                           | 5360          | 5360          |
| ROSI2       | <i>Rorippa sinuata</i>                           | <i>Rorippa sinuata</i>                         | Wet ground                                                                              | 5400          | 8000          |
| ROSY        | <i>Rorippa sylvestris</i>                        | <i>Rorippa sylvestris</i>                      | Damp ground                                                                             | 5400          | 8000          |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>     | <i>Rorippa truncata</i>                        | Disturbed canyon bottoms, periodically flooded by lake waters                           | 5360          | 5400          |
| RONU        | <i>Rosa nutkana</i>                              | <i>Rosa nutkana</i>                            | Open wooded slopes                                                                      | 6000          | 9000          |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>          | <i>Rosa woodsii</i> var. <i>arizonica</i>      | Along streams or on forested slopes                                                     | 5400          | 9000          |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>          | <i>Rosa woodsii</i> var. <i>fendleri</i>       | Canyons and mountain slopes                                                             | 6000          | 9000          |
| RUPA        | <i>Rubus parviflorus</i>                         | <i>Rubus parviflorus</i>                       | Canyon bottoms, slopes                                                                  | 7000          | 9500          |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>        | <i>Rubus strigosus</i> var. <i>arizonicus</i>  | Canyon bottoms, slopes                                                                  | 6500          | 11000         |
| RUHI2       | <i>Rudbeckia hirta</i>                           | <i>Rudbeckia hirta</i>                         | Mountain slopes, canyon bottoms; mixed conifer forests                                  | 7500          | 9500          |
| RULA3       | <i>Rudbeckia laciniata</i>                       | <i>Rudbeckia laciniata</i>                     | Moist canyon bottoms; mixed conifer forests                                             | 7500          | 9500          |
| RUAC3       | <i>Rumex acetosella</i>                          | <i>Rumex acetosella</i>                        | Meadows, disturbed soil                                                                 | 5400          | 8000          |
| RUCR        | <i>Rumex crispus</i>                             | <i>Rumex crispus</i>                           | See Robertson (1968); Herb., Band. NM                                                   | 5400          | 8000          |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>  | <i>Rumex mexicanus</i>                         | Canyon bottoms, along streams, disturbed soils                                          | 5400          | 7000          |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>   | <i>Rumex occidentalis</i>                      | Moist, often marshy ground                                                              | 7000          | 8500          |
| RUPA5       | <i>Rumex patientia</i>                           | <i>Rumex patientia</i>                         | Canyon bottoms, streamside                                                              | 5700          | 6950          |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>  | <i>Rumex triangulivalvis</i>                   | Disturbed soil, stream banks; juniper grassland, pinyon-juniper woodland, pine          | 5400          | 7500          |
| SABE2       | <i>Salix bebbiana</i>                            | <i>Salix bebbiana</i>                          | Along streams                                                                           | 7000          | 8500          |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>          | <i>Salix caudata</i>                           | Along streams, moist places; pinyon-juniper woodland, ponderosa pine forest             | 6500          | 7000          |
| SAEX        | <i>Salix exigua</i>                              | <i>Salix exigua</i>                            | Along streams, moist places; juniper and pinyon-juniper woodland, ponderosa pine forest | 5400          | 7000          |
| SAIR        | <i>Salix irrorata</i>                            | <i>Salix irrorata</i>                          | Along streams, moist places; juniper grassland, pinyon-juniper woodland                 | 5400          | 7500          |

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|-------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------|---------------|---------------|
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 | On mountain slopes                                                         | 9500          | 10000         |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  | Mountain slopes, roadside                                                  | 9050          | 9050          |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    | Disturbed soil                                                             | 6000          | 6500          |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  | Disturbed mesas                                                            | 6500          | 6500          |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              | Moist mountain slopes, along streams                                       | 7500          | 10000         |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              | Disturbed slopes, roadsides; mixed conifer forests                         | 9000          | 9500          |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                | Canyon bottoms; juniper grassland, pinyon-juniper woodland                 | 5400          | 6500          |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             | Roadsides, disturbed soil and Dry-moist                                    | 5400          | 7500          |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           | Alkaline soil                                                              | 5400          | 6000          |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> | On rocks and in rock crevices                                              | 7000          | 11000         |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              | Moist ground                                                               | 7000          | 11000         |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         | Mesas                                                                      | 5000          | 7000          |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           | Moist canyon slopes, mountain slopes and meadows                           | 7450          | 8800          |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           | Canyons, sandy soil                                                        | 5400          | 7000          |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              | Moist ground                                                               | 5400          | 5400          |
| SECO        | <i>Sedum cockerellii</i>                               | <i>Sedum cockerellii</i>                                 | Rocky outcrops and crevices                                                | 7000          | 11000         |
| SEAR3       | <i>Senecio arizonicus</i>                              | <i>Senecio arizonicus</i>                                | Dry mesas                                                                  | 5400          | 6000          |
| SEAT        | <i>Senecio atratus</i>                                 | <i>Senecio atratus</i>                                   | Open mountain slopes                                                       | 8200          | 8200          |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>         | <i>Senecio bigelovii</i> var. <i>bigelovii</i>           | Mountain slope openings; spruce-fir forests, subalpine meadows             | 9000          | 9500          |
| SECR        | <i>Senecio crassulus</i>                               | <i>Senecio crassulus</i>                                 | Mountain meadows, mountain slopes                                          | 9000          | 13000         |
| SECY        | <i>Senecio cymbalarioides</i>                          | <i>Senecio cymbalarioides</i>                            | Meadows                                                                    | 7000          | 12000         |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>         | <i>Senecio douglasii</i> var. <i>longilobus</i>          | Mesas, canyons, disturbed soil; juniper grassland, pinyon-juniper woodland | 5400          | 7500          |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougallii</i>    | <i>Senecio eremophilus</i> var. <i>macdougallii</i>      | Canyon bottoms, mountain slopes, subalpine meadows                         | 7500          | 10000         |
| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>   | <i>Senecio eurypterus</i>                                | Moist canyon bottoms                                                       | 6800          | 6800          |
| SEFE        | <i>Senecio fendleri</i>                                | <i>Senecio fendleri</i>                                  | Canyon bottoms, disturbed soil; ponderosa pine and mixed conifer forests   | 6500          | 8500          |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i>  | <i>Senecio multicapitatus</i>                            | Canyons, mesas; juniper grassland, pinyon-juniper woodland                 | 6000          | 7000          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                   | Martin and Hutchins (1980)     | Habitat                                                                                              | Min Elev (ft) | Max Elev (ft) |
|-------------|----------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------|---------------|---------------|
| SEMU3       | <i>Senecio multilobatus</i>                        | <i>Senecio multilobatus</i>    | pinyon-juniper woodland                                                                              | 6000          | 7000          |
| SENE4       | <i>Senecio neomexicanus</i>                        | <i>Senecio neomexicanus</i>    | Mountains and dry slopes                                                                             | 5400          | 9000          |
| SEPA5       | <i>Senecio pauperculus</i>                         | <i>Senecio pauperculus</i>     | Moist canyon bottoms                                                                                 | 7000          | 7000          |
| SEPS2       | <i>Senecio pseudoaureus</i>                        | <i>Senecio pseudoaureus</i>    | Moist meadows                                                                                        | 7500          | 9500          |
| SESP3       | <i>Senecio spartioides</i>                         | <i>Senecio spartioides</i>     | Mountains, valleys, open slopes                                                                      | 6500          | 9000          |
| SETR        | <i>Senecio triangularis</i>                        | <i>Senecio triangularis</i>    | Moist ground                                                                                         | 9000          | 10000         |
| SEWE2       | <i>Senecio wernerifolius</i>                       | <i>Senecio werneriaefolius</i> | Mountains and slopes                                                                                 | 7000          | 13000         |
| SEWO        | <i>Senecio wootonii</i>                            | <i>Senecio wootonii</i>        | Meadows                                                                                              | 6000          | 9000          |
| SEPA10      | <i>Setaria parviflora</i>                          | <i>Setaria geniculata</i>      | Sandy soil                                                                                           | 5000          | 7500          |
| PEAM4       | <i>Pennisetum americanum</i>                       | <i>Setaria lutescens</i>       | Disturbed soil                                                                                       | 5400          | 7500          |
| SEVU2       | <i>Setaria vulpiseta</i>                           | <i>Setaria macrostachya</i>    | Canyon slopes                                                                                        | 5700          | 5700          |
| SEVI4       | <i>Setaria viridis</i>                             | <i>Setaria viridis</i>         | Disturbed soil                                                                                       | 5400          | 8000          |
| SICA3       | <i>Sidalcea candida</i>                            | <i>Sidalcea candida</i>        | Moist canyons                                                                                        | 8000          | 8500          |
| SIAN2       | <i>Silene antirrhina</i>                           | <i>Silene antirrhina</i>       | Slopes, fields, disturbed soils and Dry-moist                                                        | 6500          | 9000          |
| SINO        | <i>Silene noctiflora</i>                           | <i>Silene noctiflora</i>       | Meadows, cultivated and disturbed soils and Dry-Moist                                                | 6500          | 9000          |
| SISC7       | <i>Silene scouleri</i>                             | <i>Silene scouleri</i>         | Canyons, meadows; mixed conifer forests and subalpine meadows                                        | 8000          | 10000         |
| SIAL2       | <i>Sisymbrium altissimum</i>                       | <i>Sisymbrium altissimum</i>   | Disturbed soil                                                                                       | 5400          | 7000          |
| SIIR        | <i>Sisymbrium irio</i>                             | <i>Sisymbrium iroio</i>        | Disturbed canyon bottoms                                                                             | 6200          | 6200          |
| SCLI        | <i>Schoenocrambe linifolia</i>                     | <i>Sisymbrium linifolium</i>   | Mesas and slopes                                                                                     | 5400          | 8500          |
| SIDE4       | <i>Sisyrinchium demissum</i>                       | <i>Sisyrinchium demissum</i>   | Riparian canyon bottoms; juniper grassland, meadows                                                  | 6000          | 9000          |
| SIMO2       | <i>Sisyrinchium montanum</i>                       | <i>Sisyrinchium montanum</i>   | Mountain meadows; subalpine meadows                                                                  | 9500          | 10000         |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>      | <i>Sitanion hystrix</i>        | Disturbed soil; juniper grassland, pinyon-juniper woodland, ponderosa pine and mixed conifer forests | 5400          | 9500          |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i> | <i>Smilacina racemosa</i>      | Moist canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forest                       | 7500          | 10000         |
| MAST4       | <i>Maianthemum stellatum</i>                       | <i>Smilacina stellata</i>      | Moist canyon bottoms, mountain slopes; mixed conifer forests                                         | 7500          | 9500          |
| SOAM        | <i>Solanum americanum</i>                          | <i>Solanum americanum</i>      | Disturbed soil                                                                                       | 5400          | 5400          |
| SODO        | <i>Solanum douglasii</i>                           | <i>Solanum douglasii</i>       | Canyons and rocky slopes                                                                             | 5400          | 6000          |
| SOEL        | <i>Solanum elaeagnifolium</i>                      | <i>Solanum elaeagnifolium</i>  | Disturbed soil; juniper woodland, pinyon-juniper forest                                              | 5400          | 6000          |
| SOJA        | <i>Solanum jamesii</i>                             | <i>Solanum jamesii</i>         | Open wooded slopes                                                                                   | 5500          | 7500          |



## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                                | Martin and Hutchins (1980)                            | Habitat                                                                       | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------|---------------|---------------|
| SOPT3       | <i>Solanum ptychanthum</i>                                      | <i>Solanum nigrum</i>                                 | Shaded slopes                                                                 | 5400          | 7000          |
| SORO        | <i>Solanum rostratum</i>                                        | <i>Solanum rostratum</i>                              | Disturbed soil                                                                | 5400          | 7500          |
| SOSA        | <i>Solanum sarrachoides</i>                                     | <i>Solanum sarachoides</i>                            | Disturbed soil                                                                | 5400          | 8000          |
| SOTR        | <i>Solanum triflorum</i>                                        | <i>Solanum triflorum</i>                              | Slopes of mesas and canyons                                                   | 5400          | 9000          |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             | Canyon slopes and bottoms, and mesas                                          | 6150          | 6600          |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     | Moist ground                                                                  | 5400          | 9000          |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> | Moist canyon bottoms                                                          | 6000          | 6700          |
| SOMO        | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                | Canyon bottoms                                                                | 6700          | 6700          |
| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          | Mountain slopes, subalpine                                                    | 8500          | 10000         |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          | Dry canyons; juniper grassland                                                | 5400          | 6000          |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               | Canyon bottoms                                                                | 6500          | 6500          |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            | Rocky canyons and slopes                                                      | 5400          | 8000          |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           | Canyon bottoms; juniper grassland                                             | 5400          | 6000          |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    | Moist canyon bottoms; ponderosa pine and mixed conifer forests                | 7000          | 10000         |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         | Open woods                                                                    | 7500          | 9500          |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  | Disturbed soil; pinyon-juniper woodland                                       | 6500          | 7000          |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              | Disturbed soil; roadsides                                                     | 5400          | 6000          |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            | Dry canyon sides; juniper grassland, pinyon-juniper woodland                  | 5400          | 6000          |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             | Mesas                                                                         | 5400          | 6500          |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             | Disturbed canyon bottoms, periodically flooded by lake waters                 | 5360          | 5400          |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> | Dry disturbed soil, roadsides                                                 | 5400          | 7000          |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         | Canyon bottoms, roadsides                                                     | 5400          | 8000          |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      | Open slopes                                                                   | 5400          | 8000          |
| SPIN2       | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             | Canyons, mesas, disturbed soils; juniper grassland, pinyon-juniper woodland   | 5400          | 6500          |
| SPIN3       | <i>Sphenopholis intermedia</i>                                  | <i>Sphenopholis intermedia</i>                        | Moist meadows                                                                 | 6000          | 8000          |
| SPAI        | <i>Sporobolus airoides</i>                                      | <i>Sporobolus airoides</i>                            | Mesas and slopes                                                              | 5400          | 7000          |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i>             | <i>Sporobolus asper</i>                               | Open slopes                                                                   | 5000          | 6000          |
| SPCO4       | <i>Sporobolus contractus</i>                                    | <i>Sporobolus contractus</i>                          | Canyon bottoms; pinyon-juniper woodland                                       | 6000          | 6500          |
| SPCR        | <i>Sporobolus cryptandrus</i>                                   | <i>Sporobolus cryptandrus</i>                         | Dry mesas and slopes; pinyon juniper woodland, revegetated agricultural areas | 5400          | 6500          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                              | Martin and Hutchins (1980)          | Habitat                                                                                        | Min Elev (ft) | Max Elev (ft) |
|-------------|-----------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------|---------------|---------------|
| SPNE        | <i>Sporobolus nealleyi</i>                    | <i>Sporobolus nealleyi</i>          | Dry mesas and canyons; juniper grassland, pinyon-juniper woodland                              | 5400          | 6500          |
| SPT5        | <i>Sporobolus texanus</i>                     | <i>Sporobolus texanus</i>           | Canyons and slopes                                                                             | 5400          | 5400          |
| STPA        | <i>Stachys palustris</i>                      | <i>Stachys palustris</i>            | Moist shady places                                                                             | 6500          | 9000          |
| STPI        | <i>Stanleya pinnata</i>                       | <i>Stanleya pinnata</i>             | Mesas and canyons                                                                              | 5400          | 6500          |
| PSJA2       | <i>Pseudostellaria jamesiana</i>              | <i>Stellaria jamesiana</i>          | Forest openings, meadows; mixed conifer forests, subalpine meadows                             | 9000          | 10000         |
| STLO        | <i>Stellaria longifolia</i>                   | <i>Stellaria longifolia</i>         | Canyons; mixed conifer forests and moist ground                                                | 7500          | 8000          |
| STLO2       | <i>Stellaria longipes</i>                     | <i>Stellaria longipes</i>           | Moist ground                                                                                   | 7000          | 9500          |
| STPA4       | <i>Stephanomeria pauciflora</i>               | <i>Stephanomeria pauciflora</i>     | Mesas                                                                                          | 5400          | 7000          |
| STTE2       | <i>Stephanomeria tenuifolia</i>               | <i>Stephanomeria tenuifolia</i>     | Mesas                                                                                          | 5400          | 8000          |
| ACNE        | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i> | <i>Stipa columbiana</i>             | Meadows and open slopes                                                                        | 7000          | 9000          |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i> | <i>Stipa comata</i>                 | Mesa tops, disturbed soil; pinyon-juniper woodland                                             | 6000          | 6500          |
| ACEM4       | <i>Achnatherum eminens</i>                    | <i>Stipa eminens</i>                | Dry slopes, mesas                                                                              | 5400          | 6000          |
| ACLE9       | <i>Achnatherum lettermanii</i>                | <i>Stipa lettermanii</i>            | Meadows                                                                                        | 5000          | 8000          |
| HENE5       | <i>Hesperostipa neomexicana</i>               | <i>Stipa neomexicana</i>            | Dry mesas                                                                                      | 5000          | 7000          |
| ACRO7       | <i>Achnatherum robustum</i>                   | <i>Stipa robusta</i>                | Open mountain slopes; mixed conifer forests                                                    | 8000          | 8500          |
| STCO6       | <i>Streptanthus cordatus</i>                  | <i>Streptanthus cordatus</i>        | Canyon slopes                                                                                  | 6400          | 6400          |
| STAM2       | <i>Streptopus amplexifolius</i>               | <i>Streptopus amplexifolius</i>     | Moist canyons                                                                                  | 8000          | 9500          |
| FRSP        | <i>Frasera speciosa</i>                       | <i>Swertia radiata</i>              | Canyon bottoms, mountain slopes, meadows; mixed conifer and spruce-fir forests                 | 8000          | 10000         |
| SYOC        | <i>Symphoricarpos occidentalis</i>            | <i>Symphoricarpos occidentalis</i>  | Along streams                                                                                  | 5400          | 8000          |
| SYOR2       | <i>Symphoricarpos oreophilus</i>              | <i>Symphoricarpos oreophilus</i>    | Along streams                                                                                  | 6500          | 9000          |
| SYOR        | <i>Symphoricarpos orbiculatus</i>             | <i>Symphoricarpos rotundifolius</i> | Rocky slopes                                                                                   | 7000          | 10000         |
| TAPA3       | <i>Talinum parviflorum</i>                    | <i>Talinum parviflorum</i>          | Rocky mesa                                                                                     | 7500          | 7500          |
| TAGA        | <i>Tamarix gallica</i>                        | <i>Tamarix gallica</i>              | Along the Rio Grande and lower slopes of White Rock Canyon                                     | 5400          | 6500          |
| TACH2       | <i>Tamarix chinensis</i>                      | <i>Tamarix pentandra</i>            | Along rivers and streams, moist places, road-sides; juniper grassland, pinyon-juniper woodland | 5400          | 6500          |
| TALA2       | <i>Taraxacum laevigatum</i>                   | <i>Taraxacum laevigatum</i>         | Disturbed soil                                                                                 | 5400          | 12000         |
| TAOF        | <i>Taraxacum officinale</i>                   | <i>Taraxacum officinale</i>         | Disturbed soils; juniper grassland, mixed conifer and spruce-fir forests                       | 5400          | 9000          |
| TECA2       | <i>Tetradymia canescens</i>                   | <i>Tetradymia canescens</i>         | Mesas, canyons; juniper grassland, pinyon-juniper woodland                                     | 5400          | 6500          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                                 | Habitat                                                                          | Min Elev (ft) | Max Elev (ft) |
|-------------|-------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------|---------------|---------------|
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i> var. <i>inermis</i>            | Dry mesas                                                                        | 6100          | 6500          |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>             | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | Moist canyons, mountain slopes; ponderosa pine and mixed conifer forests         | 7000          | 9500          |
| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      | Disturbed canyon bottoms and mesas                                               | 5900          | 6600          |
| THME        | <i>Thelesperma megapotamicum</i>                            | <i>Thelesperma megapotamicum</i>                           | Disturbed soil; juniper grassland, pinyon-juniper woodland                       | 5400          | 6500          |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>        | <i>Thelesperma trifidum</i>                                | Disturbed soil                                                                   | 5400          | 7500          |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i>  | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> | Damp ground                                                                      | 5400          | 6500          |
| THWR        | <i>Thelypodium wrightii</i>                                 | <i>Thelypodium wrightii</i>                                | Canyons and mesas; juniper grassland, pinyon-juniper woodland ponderosa forest   | 5400          | 7500          |
| THMO6       | <i>Thermopsis montana</i>                                   | <i>Thermopsis montanum</i>                                 | Meadows, forest clearings                                                        | 7000          | 10000         |
| THDI4       | <i>Thermopsis divaricarpa</i>                               | <i>Thermopsis pinetorum</i>                                | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests        | 7000          | 9500          |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>                | <i>Thlaspi alpestre</i>                                    | Canyon bottoms, mountain slopes; ponderosa pine and mixed conifer forests        | 7000          | 10000         |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>          | <i>Torreyochloa pauciflora</i>                             | Moist canyon bottoms, streamside                                                 | 6300          | 6300          |
| TOAN        | <i>Townsendia annua</i>                                     | <i>Townsendia annua</i>                                    | Dry slopes                                                                       | 9000          | 11000         |
| TOEX        | <i>Townsendia eximia</i>                                    | <i>Townsendia eximia</i>                                   | Meadows and open slopes, partially shaded areas                                  | 9000          | 11000         |
| TOFO        | <i>Townsendia formosa</i>                                   | <i>Townsendia formosa</i>                                  | Open, often moist mountain slopes                                                | 7000          | 9000          |
| TOIN        | <i>Townsendia incana</i>                                    | <i>Townsendia incana</i>                                   | Canyon bottoms; ponderosa pine forests                                           | 7000          | 7500          |
| TOEX2       | <i>Townsendia exscapa</i>                                   | <i>Townsendia escapa</i>                                   | Mesa tops; pinyon-juniper woodland                                               | 6000          | 6500          |
| TRNE        | <i>Tragia nepetifolia</i>                                   | <i>Tragia nepetaefolia</i>                                 | Rocky canyon slopes                                                              | 5500          | 5500          |
| TRDU        | <i>Tragopogon dubius</i>                                    | <i>Tragopogon dubius</i>                                   | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forest | 6500          | 8000          |
| TRPR        | <i>Tragopogon pratensis</i>                                 | <i>Tragopogon pratensis</i>                                | Disturbed soil                                                                   | 5400          | 7000          |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                               | Moist ground near streams                                                        | 8000          | 9500          |
| TRTE        | <i>Tribulus terrestris</i>                                  | <i>Tribulus terrestris</i>                                 | Disturbed soil                                                                   | 5400          | 7000          |
| ERPU8       | <i>Erioneuron pulchellum</i>                                | <i>Tridens pulchellus</i>                                  | Dry mesas and hills                                                              | 5000          | 5500          |
| TRDA2       | <i>Trifolium dasyphyllum</i>                                | <i>Trifolium dasyphyllum</i>                               | Meadows                                                                          | 10000         | 10000         |
| TRHY        | <i>Trifolium hybridum</i>                                   | <i>Trifolium hybridum</i>                                  | Mountain meadows, disturbed soils; subalpine meadows                             | 9500          | 10000         |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>             | <i>Trifolium lacerum</i>                                   | Moist meadows                                                                    | 5500          | 8000          |
| TRPR2       | <i>Trifolium pratense</i>                                   | <i>Trifolium pratense</i>                                  | Mountain meadows, disturbed soil; mixed conifer forests and subalpine meadows    | 7500          | 10000         |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                           | Martin and Hutchins (1980)                           | Habitat                                                                                              | Min Elev (ft) | Max Elev (ft) |
|-------------|------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------|---------------|
| TRCA5       | <i>Trifolium campestre</i>                                 | <i>Trifolium procumbens</i>                          | Disturbed soil                                                                                       | 5400          | 7000          |
| TRRE3       | <i>Trifolium repens</i>                                    | <i>Trifolium repens</i>                              | Disturbed soil; meadows                                                                              | 5400          | 8500          |
| TRPE4       | <i>Triodanis perfoliata</i>                                | <i>Triodanis perfoliata</i>                          | Disturbed ground moist areas; pinyon-juniper woodland                                                | 6500          | 7500          |
| TRMO5       | <i>Trisetum montanum</i>                                   | <i>Trisetum montanum</i>                             | Meadows                                                                                              | 7000          | 9500          |
| TRSP2       | <i>Trisetum spicatum</i>                                   | <i>Trisetum spicatum</i>                             | Mountain meadows                                                                                     | 9000          | 11500         |
| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                               | Ponded water in canyons; juniper grassland, pinyon-juniper woodland, pine forest                     | 6000          | 8000          |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         | Along streams, moist meadows                                                                         | 6000          | 8500          |
| URGR        | <i>Urtica gracilentia</i>                                  | <i>Urtica gracilentia</i>                            | Along streams, moist meadows                                                                         | 6500          | 8000          |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               | Along streams, moist meadows                                                                         | 6000          | 8500          |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           | Open and meadows                                                                                     | 8000          | 11000         |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           | Moist canyons, mountain slopes; ponderosa pine and mixed conifer forests                             | 6500          | 8000          |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    | Damp woods                                                                                           | 7000          | 9500          |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         | Moist meadows                                                                                        | 8000          | 10500         |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             | Disturbed soils, roadsides                                                                           | 6000          | 7500          |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         | Mesas, slopes                                                                                        | 5400          | 6000          |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             | Disturbed soil; pinyon-juniper woodland, ponderosa pine forest                                       | 6000          | 7500          |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             | Dry mesas                                                                                            | 5400          | 5500          |
| VEMA        | <i>Verbena macdougallii</i>                                | <i>Verbena macdougallii</i>                          | Meadows                                                                                              | 6500          | 8000          |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              | Rocky slopes, dry canyons; White Rock Canyon                                                         | 5400          | 6000          |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> | Disturbed soil; pinyon-juniper woodland                                                              | 5400          | 6500          |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            | Near streams, springs, wet areas; juniper grassland, pinyon-juniper woodland, pine and mixed conifer | 5400          | 7500          |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             | Shallow water, moist disturbed soil                                                                  | 5400          | 8000          |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     | Moist places, along streams, marshy areas                                                            | 6000          | 8500          |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        | Along streams, springs; juniper grassland, pinyon-juniper woodland                                   | 5400          | 6000          |
| VEWO2       | <i>Veronica wormskjoldii</i>                               | <i>Veronica wormskjoldii</i>                         | Along streams                                                                                        | 9000          | 11000         |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              | Along streams                                                                                        | 5500          | 5500          |

## HABITAT CON'T

| USDA Symbol | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                       | Habitat                                                                                            | Min Elev (ft) | Max Elev (ft) |
|-------------|------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------|---------------|
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>         | <i>Vicia americana</i> var. <i>americana</i>     | Moist canyon bottoms, mountain slopes, meadows; pinyon-juniper woodland, pine, mixed conifer       | 6000          | 9500          |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>             | <i>Vicia americana</i> var. <i>linearis</i>      | Open slopes                                                                                        | 7000          | 10000         |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>             | <i>Vicia americana</i> var. <i>minor</i>         | Sandy soils                                                                                        | 5400          | 6000          |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>     | <i>Vicia exigua</i>                              | Canyon bottoms and slopes, periodically flooded by lake waters                                     | 5400          | 6300          |
| VILE3       | <i>Vicia leucophaea</i>                              | <i>Vicia leucophaea</i>                          | Slopes                                                                                             | 6000          | 8000          |
| VICO        | <i>Viguiera cordifolia</i>                           | <i>Viguiera cordifolia</i>                       | Canyons and dry slopes                                                                             | 5400          | 5400          |
| HEMUM       | <i>Helioomeris multiflora</i> var. <i>multiflora</i> | <i>Viguiera multiflora</i>                       | Disturbed soil; pinyon-juniper woodland, ponderosa pine and mixed conifer forest                   | 6500          | 9000          |
| VIAD        | <i>Viola adunca</i>                                  | <i>Viola adunca</i>                              | Streamsides, moist canyon bottoms; juniper grassland, pinyon-juniper woodland, pine, mixed conifer | 5400          | 9000          |
| VICA4       | <i>Viola canadensis</i>                              | <i>Viola canadensis</i>                          | Moist canyon bottoms, mountain slopes; mixed conifer forests                                       | 7500          | 10000         |
| VISO        | <i>Viola sororia</i>                                 | <i>Viola nephrophylla</i>                        | Springs, along streams                                                                             | 5400          | 9000          |
| VIPE2       | <i>Viola pedatifida</i>                              | <i>Viola pedatifida</i>                          | Meadows, openings in forests; mixed conifer forests                                                | 8000          | 8500          |
| VIAR2       | <i>Vitis arizonica</i>                               | <i>Vitis arizonica</i> var. <i>arizonica</i>     | Canyon walls, along Rio Grande, canyon bottoms; juniper grassland, pinyon-juniper woodland         | 5400          | 7000          |
| VIVU        | <i>Vitis vulpina</i>                                 | <i>Vitis vulpina</i>                             | New streams                                                                                        | 5400          | 6000          |
|             |                                                      | <i>Woodsia mexicana</i>                          | Canyon slopes, on cliffs and boulders                                                              | 6150          | 6150          |
| WOOR        | <i>Woodsia oregana</i>                               | <i>Woodsia oregana</i>                           | Dry rocky niches                                                                                   | 5500          | 11500         |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i>     | <i>Xanthium strumarium</i> var. <i>canadense</i> | Disturbed soil; riverbanks, juniper grasslands                                                     | 5400          | 6000          |
| YUAN2       | <i>Yucca angustissima</i>                            | <i>Yucca angustissima</i>                        | Mesas, dry canyon sides; juniper grassland, pinyon-juniper woodland                                | 5400          | 7000          |
| YUBA        | <i>Yucca baccata</i>                                 | <i>Yucca baccata</i>                             | Dry canyon sides, mesas; juniper grassland, pinyon-juniper woodland                                | 5400          | 6500          |
| YUGL        | <i>Yucca glauca</i>                                  | <i>Yucca glauca</i>                              | Canyons and mesas                                                                                  | 5400          | 6000          |
| ZIGR        | <i>Zinnia grandiflora</i>                            | <i>Zinnia grandiflora</i>                        | Dry mesas                                                                                          | 6100          | 6100          |
| ZIEL2       | <i>Zigadenus elegans</i>                             | <i>Zygadenus elegans</i>                         | Moist canyon bottoms, meadows, mountain slopes; mixed conifer and subalpine                        | 8000          | 10000         |

### Key for heading acronyms and abbreviations:

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

Habitat = topographic position, soils, and communities where the plant was found.

Min Elev (ft) = lowest elevation that plant was collected by Foxx and/or Tierney or was reported in Martin and Hutchins (1980).

Max Elev (ft) = highest elevation that plant was collected by Foxx and/or Tierney or was reported in Martin and Hutchins (1980).

## ROOTS



Western Wallflower

## ROOTS

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible            | Weediness              | Oldfields | Oldfield References | Oldfield Comments |
|--------------|------------------------------------------------------|-------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------------------|-----------|---------------------|-------------------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | Ectomycorrhizal |          |         | No       |                   | Non-weedy              |           |                     |                   |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | Ectomycorrhizal | No       | No      | No       |                   | Non-weedy              |           |                     |                   |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    |                 |          |         | Yes      |                   | Non-weedy              |           |                     |                   |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        | Endomycorrhizal | Possible | Maybe   | Yes      |                   |                        |           |                     |                   |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> | Endomycorrhizal | No       | No      |          |                   | Economic               |           |                     |                   |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     |                 |          |         |          | Poison            | Non-weedy              |           |                     |                   |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    |                 |          |         |          |                   |                        |           |                     |                   |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      |                 |          |         |          |                   | Noxious-CO             |           |                     |                   |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   |                 |          |         |          |                   | Non-weedy              |           |                     |                   |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       |                 |          |         |          |                   |                        |           |                     |                   |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      |                 |          |         |          | Yes-<br>Qualified | Non-weedy              |           |                     |                   |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       | Endomycorrhizal |          |         | No       |                   | Non-weedy              |           |                     |                   |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |                 |          |         |          |                   |                        |           |                     |                   |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    |                 |          |         |          |                   | Non-weedy              |           |                     |                   |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        |                 |          |         |          |                   | Non-weedy              |           |                     |                   |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   | Endomycorrhizal | No       |         | Yes      |                   | Non-weedy              |           |                     |                   |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     |                 |          |         |          |                   | Colonizing             |           |                     |                   |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |                 |          |         |          |                   |                        |           |                     |                   |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   |                 |          |         |          |                   |                        |           |                     |                   |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         |                 | No       | No      | Yes      | Yes               | Noxious-<br>All_States |           |                     |                   |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        | Endomycorrhizal | No       | No      | Yes      |                   | Non-weedy              |           |                     |                   |

\* A key for heading acronyms and abbreviations is on the last page of this table.



## ROOTS CON'T

| USDA Symbol            | USDA NRCS PLANTS                                                                             | Martin and Hutchins (1980)                | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible            | Weediness  | Oldfields | Oldfield References    | Oldfield Comments                       |
|------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|------------------------|-----------------------------------------|
| ELTRS                  | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>                                           | <i>Agropyron subsecundum</i>              |                 |          |         |          |                   |            |           |                        |                                         |
| ELTRT                  | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>                                          | <i>Agropyron trachycaulum</i>             |                 |          |         | Yes      |                   | Non-weedy  | Y         | Jastrow et al. (1984a) | Dominant on old fields with sandy soils |
| AGGI2                  | <i>Agrostis gigantea</i>                                                                     | <i>Agrostis alba</i>                      |                 |          |         |          |                   |            |           |                        |                                         |
| AGEX                   | <i>Agrostis exarata</i>                                                                      | <i>Agrostis exarata</i>                   |                 |          |         |          |                   | Non-weedy  |           |                        |                                         |
| AGID                   | <i>Agrostis idahoensis</i>                                                                   | <i>Agrostis idahoensis</i>                |                 |          |         |          |                   | Non-weedy  |           |                        |                                         |
| AGPE                   | <i>Agrostis perennans</i>                                                                    | <i>Agrostis perennans</i>                 |                 |          |         | Maybe    |                   | Non-weedy  |           |                        |                                         |
| AGSC5                  | <i>Agrostis scabra</i>                                                                       | <i>Agrostis scabra</i>                    |                 | No       | No      |          |                   | Colonizing |           |                        |                                         |
| POVI9                  | <i>Polypogon viridis</i>                                                                     | <i>Agrostis semiverticillata</i>          |                 |          |         |          |                   | Colonizing |           |                        |                                         |
| AGST2                  | <i>Agrostis stolonifera</i>                                                                  | <i>Agrostis stolonifera</i>               | Endomycorrhizal |          | No      | Yes      |                   | Non-weedy  |           |                        |                                         |
| AIAL                   | <i>Ailanthus altissima</i>                                                                   | <i>Ailanthus altissima</i>                | Endomycorrhizal |          |         | Yes      | Poison            | Colonizing |           |                        |                                         |
| ALCEO                  | <i>Allium cernuum</i> var. <i>obtusum</i>                                                    | <i>Allium cernuum</i> var. <i>obtusum</i> |                 |          |         |          | Yes               | Economic   |           |                        |                                         |
| ALGE                   | <i>Allium geyeri</i>                                                                         | <i>Allium geyeri</i>                      |                 |          |         |          | Yes               | Economic   |           |                        |                                         |
| ALMA4                  | <i>Allium macropetalum</i>                                                                   | <i>Allium macropetalum</i>                |                 |          |         |          |                   | Economic   |           |                        |                                         |
| ALTE                   | <i>Allium textile</i>                                                                        | <i>Allium textile</i>                     |                 |          |         |          | Yes               | Economic   |           |                        |                                         |
| ALOB2                  | <i>Alnus oblongifolia</i>                                                                    | <i>Alnus oblongifolia</i>                 |                 |          |         |          |                   |            |           |                        |                                         |
| ALINT                  | <i>Alnus incana</i> ssp. <i>tenuifolia</i>                                                   | <i>Alnus tenuifolia</i>                   | Ectomycorrhizal | Reported | Yes     | Yes      |                   | Non-weedy  |           |                        |                                         |
| ALAE                   | <i>Alopecurus aequalis</i>                                                                   | <i>Alopecurus aequalis</i>                |                 |          |         | Yes      |                   | Non-weedy  |           |                        |                                         |
| ALRO3                  | <i>Alcea rosea</i>                                                                           | <i>Althaea rosea</i>                      | Endomycorrhizal |          |         |          |                   | Non-weedy  |           |                        |                                         |
| AMAL                   | <i>Amaranthus albus</i>                                                                      | <i>Amaranthus albus</i>                   | Nonmycorrhizal  |          |         | Yes      |                   | Economic   |           |                        |                                         |
| AMAL;<br>AMBL          | <i>Amaranthus albus</i> ;<br><i>Amaranthus blitoides</i>                                     | <i>Amaranthus graecizans</i>              |                 |          |         |          |                   |            |           |                        |                                         |
| AMHY                   | <i>Amaranthus hybridus</i>                                                                   | <i>Amaranthus hybridus</i>                | Nonmycorrhizal  |          |         | Maybe    | Yes               | Colonizing |           |                        |                                         |
| AMHY2                  | <i>Amaranthus hypochondriacus</i> L.                                                         | <i>Amaranthus leucocarpus</i>             |                 |          |         |          |                   |            |           |                        |                                         |
| AMPA                   | <i>Amaranthus palmeri</i> S. Wats.                                                           | <i>Amaranthus palmeri</i>                 | Nonmycorrhizal  |          |         | Yes      | Yes               | Non-weedy  |           |                        |                                         |
| AMPO2                  | <i>Amaranthus powellii</i> S. Wats.                                                          | <i>Amaranthus powellii</i>                | Nonmycorrhizal  |          |         | Maybe    | Yes-<br>Qualified | Non-weedy  |           |                        |                                         |
| AMRE                   | <i>Amaranthus retroflexus</i> L.                                                             | <i>Amaranthus retroflexus</i>             | Nonmycorrhizal  |          |         | Yes      | Yes               | Economic   |           |                        |                                         |
| AMAR;<br>AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ;<br><i>Amaranthus bigelovii</i> ;<br><i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                 |                 |          |         |          |                   |            |           |                        |                                         |
| AMAR2                  | <i>Ambrosia artemisiifolia</i>                                                               | <i>Ambrosia artemisiifolia</i>            |                 |          |         | Yes      |                   | Colonizing |           |                        |                                         |

## ROOTS CON'T

| USDA Symbol | USDA NRCS PLANTS                                        | Martin and Hutchins (1980)                              | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible            | Weediness  | Oldfields | Oldfield References | Oldfield Comments |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-------------------|
| AMPS        | <i>Ambrosia psilostachya</i>                            | <i>Ambrosia psilostachya</i>                            |                 |          |         | Yes      |                   | Noxious-WY |           |                     |                   |
| AMUTU       | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>      | <i>Amelanchier bakeri</i>                               |                 |          |         |          |                   |            |           |                     |                   |
| AMUTU       | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>      | <i>Amelanchier oreophila</i>                            |                 |          |         |          |                   |            |           |                     |                   |
| AMPU5       | <i>Amelanchier pumila</i>                               | <i>Amelanchier polycarpa</i>                            |                 |          |         |          |                   |            |           |                     |                   |
| AMUT        | <i>Amelanchier utahensis</i>                            | <i>Amelanchier utahensis</i>                            | Endomycorrhizal |          | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| AMCA6       | <i>Amorpha canescens</i>                                | <i>Amorpha canescens</i>                                |                 | Reported | Yes     |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| AMFR        | <i>Amorpha fruticosa</i>                                | <i>Amorpha fruticosa</i> var. <i>angustifolia</i>       |                 | Reported | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| AMNA        | <i>Amorpha nana</i>                                     | <i>Amorpha nana</i>                                     |                 | Possible | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| ANAR        | <i>Anagallis arvensis</i>                               | <i>Anagallis arvensis</i>                               | Endomycorrhizal |          |         |          |                   | Colonizing |           |                     |                   |
| ANMA        | <i>Anaphalis margaritacea</i>                           | <i>Anaphalis margaritacea</i>                           | Endomycorrhizal |          |         |          |                   | Non-weedy  |           |                     |                   |
| BOBAB       | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>   | <i>Andropogon barbinodis</i>                            |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ANGE        | <i>Andropogon gerardii</i>                              | <i>Andropogon gerardii</i>                              |                 | No       | No      |          |                   | Non-weedy  |           |                     |                   |
| ANHA        | <i>Andropogon hallii</i>                                | <i>Andropogon hallii</i>                                |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| BOSA        | <i>Bothriochloa saccharoides</i>                        | <i>Andropogon saccharoides</i>                          |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SCSCS2      | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>    | <i>Andropogon scoparius</i>                             |                 | No       | No      |          |                   | Non-weedy  |           |                     |                   |
| BOSP3       | <i>Bothriochloa springfieldii</i>                       | <i>Andropogon springfieldii</i>                         |                 |          |         |          |                   |            |           |                     |                   |
| BOWR2       | <i>Bothriochloa wrightii</i>                            | <i>Andropogon wrightii</i>                              |                 |          |         |          |                   |            |           |                     |                   |
| ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i> | <i>Androsace septentrionalis</i> var. <i>subulifera</i> |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ANCY        | <i>Anemone cylindrica</i>                               | <i>Anemone cylindrica</i>                               |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ANPI2       | <i>Angelica pinnata</i>                                 | <i>Angelica pinnata</i>                                 |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ANCR2       | <i>Anoda cristata</i>                                   | <i>Anoda cristata</i> var. <i>digitata</i>              |                 |          |         |          |                   | Colonizing |           |                     |                   |
| ANMA5       | <i>Antennaria marginata</i>                             | <i>Antennaria marginata</i>                             |                 |          |         |          |                   |            |           |                     |                   |
| ANPA4       | <i>Antennaria parvifolia</i>                            | <i>Antennaria parvifolia</i>                            |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ANRO2       | <i>Antennaria rosea</i>                                 | <i>Antennaria rosea</i>                                 | Endomycorrhizal |          |         |          |                   | Non-weedy  |           |                     |                   |
| ANRO3       | <i>Antennaria rosulata</i>                              | <i>Antennaria rosulata</i>                              |                 |          |         |          |                   | Non-weedy  |           |                     |                   |

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| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Mycorrhiza       | Nod Form | Nit Fix | Hayfever | Edible            | Weediness | Oldfields | Oldfield References | Oldfield Comments |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------|----------|---------|----------|-------------------|-----------|-----------|---------------------|-------------------|
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               |                  |          |         |          |                   |           |           |                     |                   |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> |                  |          |         |          |                   | Economic  |           |                     |                   |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            |                  |          |         |          |                   | Economic  |           |                     |                   |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            |                  |          |         |          |                   |           |           |                     |                   |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     |                  |          |         |          |                   |           |           |                     |                   |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   |                  |          |         |          |                   | Non-weedy |           |                     |                   |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   |                  |          |         |          |                   | Non-weedy |           |                     |                   |
| AQTR        | <i>Aquilegia tritemata</i>                                    | <i>Aquilegia tritemata</i>                                    |                  |          |         |          |                   |           |           |                     |                   |
| ARDI2       | <i>Arabis X divaricarpa</i>                                   | <i>Arabis divaricarpa</i>                                     | Nonmycorrhizal   |          |         |          |                   | Non-weedy |           |                     |                   |
| ARDR        | <i>Arabis drummondii</i>                                      | <i>Arabis drummondii</i>                                      | Nonmycorrhizal   |          |         |          |                   | Non-weedy |           |                     |                   |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | Nonmycorrhizal   |          |         |          |                   | Non-weedy |           |                     |                   |
| ARGL        | <i>Arabis glabra</i>                                          | <i>Arabis glabra</i>                                          | Nonmycorrhizal   |          |         |          |                   | Non-weedy |           |                     |                   |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  | Nonmycorrhizal   |          |         |          |                   | Non-weedy |           |                     |                   |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | Nonmycorrhizal   |          |         |          |                   | Non-weedy |           |                     |                   |
| ARPE2       | <i>Arabis perennans</i>                                       | <i>Arabis perennans</i>                                       | Nonmycorrhizal   |          |         |          |                   | Non-weedy |           |                     |                   |
| ARRA        | <i>Aralia racemosa</i>                                        | <i>Aralia racemosa</i>                                        |                  |          |         |          | Yes-<br>Qualified | Non-weedy |           |                     |                   |
| ARDI3       | <i>Arceuthobium divaricatum</i>                               | <i>Arceuthobium divaricatum</i>                               |                  |          |         |          |                   | Non-weedy |           |                     |                   |
| ARDO        | <i>Arceuthobium douglasii</i>                                 | <i>Arceuthobium douglasii</i>                                 |                  |          |         |          |                   | Economic  |           |                     |                   |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i>         | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodum</i>       |                  |          |         |          |                   | Non-weedy |           |                     |                   |
| ARPU5       | <i>Arctostaphylos pungens</i>                                 | <i>Arctostaphylos pungens</i>                                 | Ectomycorrhizal  |          | Maybe   |          | Yes-<br>Qualified | Non-weedy |           |                     |                   |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                                | <i>Arctostaphylos uva-ursi</i>                                | Ecotomycorrhizal | Reported | Maybe   |          | Yes               | Non-weedy |           |                     |                   |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>                 | <i>Arenaria confusa</i>                                       |                  |          |         |          |                   |           |           |                     |                   |

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|-------------|------------------------------------------------------|--------------------------------------------------------|-----------------|----------|---------|----------|--------|------------|-----------|---------------------|-------------------|
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>        | <i>Arenaria fendleri</i> var. <i>brevifolia</i>        | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                     |                   |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>      | <i>Arenaria fendleri</i> var. <i>fendleri</i>          | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                     |                   |
| MOMA3       | <i>Moehringia macrophylla</i>                        | <i>Arenaria macrophylla</i>                            | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                     |                   |
| ARAD        | <i>Aristida adscensionis</i>                         | <i>Aristida adscensionis</i>                           |                 |          |         |          |        | Non-weedy  |           |                     |                   |
| ARAR6       | <i>Aristida arizonica</i>                            | <i>Aristida arizonica</i>                              |                 |          |         |          |        | Non-weedy  |           |                     |                   |
| ARHA3       | <i>Aristida havardii</i>                             | <i>Aristida barbata</i>                                |                 |          |         | No       |        | Non-weedy  |           |                     |                   |
| ARDI5       | <i>Aristida divaricata</i>                           | <i>Aristida divaricata</i>                             |                 |          |         |          |        | Non-weedy  |           |                     |                   |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>     | <i>Aristida fendleriana</i>                            |                 |          |         |          |        | Non-weedy  |           |                     |                   |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>       | <i>Aristida longiseta</i>                              |                 | No       | No      |          |        | Non-weedy  |           |                     |                   |
| ARPU9       | <i>Aristida purpurea</i>                             | <i>Aristida purpurea</i>                               |                 |          |         |          |        | Non-weedy  |           |                     |                   |
| ARBI3       | <i>Artemisia bigelovii</i>                           | <i>Artemisia bigelovii</i>                             |                 |          |         | Yes      |        | Non-weedy  |           |                     |                   |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>     | <i>Artemisia campestris</i> subsp. <i>pacifica</i>     |                 |          |         | Yes      |        | Non-weedy  |           |                     |                   |
| ARCA13      | <i>Artemisia cana</i>                                | <i>Artemisia cana</i>                                  |                 |          |         | Maybe    |        | Non-weedy  |           |                     |                   |
| ARCA14      | <i>Artemisia carruthii</i>                           | <i>Artemisia carruthii</i>                             |                 |          |         | Yes      |        | Non-weedy  |           |                     |                   |
| ARDR4       | <i>Artemisia dracunculus</i>                         | <i>Artemisia dracunculus</i>                           |                 |          |         | Yes      | Yes    | Non-weedy  |           |                     |                   |
| ARFI2       | <i>Artemisia filifolia</i>                           | <i>Artemisia filifolia</i>                             |                 | Possible | Maybe   | Yes      |        | Economic   |           |                     |                   |
| ARFR3       | <i>Artemisia franserioides</i>                       | <i>Artemisia franserioides</i>                         |                 |          |         | Maybe    |        | Non-weedy  |           |                     |                   |
| ARFR4       | <i>Artemisia frigida</i>                             | <i>Artemisia frigida</i>                               | Endomycorrhizal | Possible | Maybe   | Yes      |        | Colonizing |           |                     |                   |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>      | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>      |                 |          |         |          |        |            |           |                     |                   |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> |                 | Reported | Yes     | Yes      | Yes    | Non-weedy  |           |                     |                   |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>    |                 |          |         |          |        |            |           |                     |                   |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>     | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>    |                 |          |         |          |        |            |           |                     |                   |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>    | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>     |                 |          |         |          |        |            |           |                     |                   |
| ARTR2       | <i>Artemisia tridentata</i>                          | <i>Artemisia tridentata</i>                            | Endomycorrhizal | Reported | Yes     | Yes      | Yes    | Economic   |           |                     |                   |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>       | <i>Asclepias asperula</i> subsp. <i>asperula</i>       |                 |          |         |          |        | Non-weedy  |           |                     |                   |
| ASEN        | <i>Asclepias engelmanniana</i>                       | <i>Asclepias engelmanniana</i>                         |                 |          |         |          |        | Non-weedy  |           |                     |                   |

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|-------------|--------------------------------------------------------|-------------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-------------------|
| ASIN14      | <i>Asclepias involucrata</i>                           | <i>Asclepias involucrata</i>                          |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| ASMA        | <i>Asclepias macrotis</i>                              | <i>Asclepias macrotis</i>                             |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASSP        | <i>Asclepias speciosa</i>                              | <i>Asclepias speciosa</i>                             |                 |          |         |          | Yes               | Economic   |           |                     |                   |
| ASSU2       | <i>Asclepias subverticillata</i>                       | <i>Asclepias subverticillata</i>                      |                 |          |         |          |                   | Economic   |           |                     |                   |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>         | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>    |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASVI        | <i>Asclepias viridiflora</i>                           | <i>Asclepias viridiflora</i>                          |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASOF        | <i>Asparagus officinalis</i>                           | <i>Asparagus officinalis</i>                          |                 |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| ASTR2       | <i>Asplenium trichomanes</i>                           | <i>Asplenium trichomanes</i>                          | Endomycorrhizal |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASER3       | <i>Aster ericoides</i>                                 | <i>Aster ericoides</i>                                |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASFE        | <i>Aster fendleri</i>                                  | <i>Aster fendleri</i>                                 |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASFO        | <i>Aster foliaceus</i>                                 | <i>Aster foliaceus</i>                                |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>           | <i>Aster glaucodes</i> var. <i>glaucodes</i>          |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>         | <i>Aster hesperius</i>                                |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASLA5       | <i>Aster laevis</i>                                    | <i>Aster laevis</i>                                   |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASNO        | <i>Aster novae-angliae</i>                             | <i>Aster novae-angliae</i>                            |                 |          |         | Maybe    |                   | Colonizing |           |                     |                   |
| ASOC        | <i>Aster occidentalis</i>                              | <i>Aster occidentalis</i>                             |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ALPA14      | <i>Almutaster pauciflorus</i>                          | <i>Aster pauciflorus</i>                              |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASPR2       | <i>Aster praealtus</i>                                 | <i>Aster praealtus</i>                                |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ASAG2       | <i>Astragalus agrestis</i>                             | <i>Astragalus agrestis</i>                            |                 | Reported | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| ASAM5       | <i>Astragalus amphioxys</i>                            | <i>Astragalus amphioxys</i>                           |                 | Possible | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| ASBI2       | <i>Astragalus bisulcatus</i>                           | <i>Astragalus bisulcatus</i>                          |                 | Possible | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| ASCR2       | <i>Astragalus crassicaupus</i>                         | <i>Astragalus crassicaupus</i>                        |                 | Reported | Maybe   | No       | Yes               | Non-weedy  |           |                     |                   |
| ASEM2       | <i>Astragalus emoryanus</i>                            | <i>Astragalus emoryanus</i>                           |                 | Possible | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| ASFL2       | <i>Astragalus flexuosus</i>                            | <i>Astragalus flexuosus</i>                           |                 | Reported | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| ASGR3       | <i>Astragalus gracilis</i>                             | <i>Astragalus gracilis</i>                            |                 | Reported | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| ASHU2       | <i>Astragalus humistratus</i>                          | <i>Astragalus humistratus</i>                         |                 | Possible | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i> | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i> |                 |          |         |          |                   |            |           |                     |                   |
| ASLE8       | <i>Astragalus lentiginosus</i>                         | <i>Astragalus lentiginosus</i>                        |                 | Possible | Maybe   |          |                   | Non-weedy  |           |                     |                   |

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|-------------|-------------------------------------------------------------|-----------------------------------------------------------|-----------------|----------|---------|----------|-------------------|-----------|-----------|---------------------|------------------------------------------|
| ASLO3       | <i>Astragalus lonchocarpus</i>                              | <i>Astragalus lonchocarpus</i>                            |                 | Reported | Maybe   |          |                   | Non-weedy |           |                     |                                          |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i>   | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> |                 | Reported | Maybe   |          |                   | Non-weedy |           |                     |                                          |
| ASMO7       | <i>Astragalus mollissimus</i>                               | <i>Astragalus mollissimus</i>                             |                 | Reported | Maybe   |          |                   | Non-weedy |           |                     |                                          |
| ASPR5       | <i>Astragalus praelongus</i>                                | <i>Astragalus praelongus</i>                              |                 | Possible | Maybe   |          |                   | Non-weedy |           |                     |                                          |
| ASSH3       | <i>Astragalus shortianus</i>                                | <i>Astragalus shortianus</i>                              |                 | Possible | Maybe   |          |                   | Non-weedy |           |                     |                                          |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosum</i>           | <i>Athyrium filix-femina</i> var. <i>californicum</i>     |                 |          |         |          |                   | Non-weedy |           |                     |                                          |
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                                 | Endomycorrhizal | Possible | Maybe   | Yes      | Yes               | Non-weedy |           |                     |                                          |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                                    | Nonmycorrhizal  |          |         | Yes      |                   | Non-weedy |           |                     |                                          |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                                    |                 |          |         |          |                   |           |           |                     |                                          |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                                     |                 |          |         |          |                   | Non-weedy |           |                     |                                          |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                                  |                 |          |         |          |                   |           |           |                     |                                          |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                                 |                 |          |         |          |                   |           |           |                     |                                          |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                               |                 |          |         |          |                   | Non-weedy |           |                     |                                          |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                                | Nonmycorrhizal  |          |         |          |                   | Economic  |           |                     |                                          |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                              | Nonmycorrhizal  |          |         |          |                   | Non-weedy |           |                     |                                          |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                                  |                 |          |         |          | Yes               | Non-weedy |           |                     |                                          |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                                    |                 |          |         |          |                   |           |           |                     |                                          |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                                 |                 |          |         |          |                   |           |           |                     |                                          |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                      |                 |          |         |          |                   | Non-weedy |           |                     |                                          |
| BEPL        | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                               |                 |          |         |          |                   | Non-weedy |           |                     |                                          |
| BEOC2       | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                                | Ectomycorrhizal |          |         | Yes      |                   | Non-weedy |           |                     |                                          |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                                   |                 |          |         |          | Yes-<br>Qualified | Non-weedy |           |                     |                                          |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>             |                 |          |         |          |                   | Non-weedy |           |                     |                                          |
| BICE        | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                      |                 |          |         |          |                   | Non-weedy |           |                     |                                          |
| BITR        | <i>Bidens tripartita</i>                                    | <i>Bidens cosmosa</i>                                     |                 |          |         |          |                   | Non-weedy |           |                     |                                          |
| BIFR        | <i>Bidens frondosa</i>                                      | <i>Bidens frondosa</i>                                    |                 |          |         |          |                   | Economic  |           |                     |                                          |
| BLTR        | <i>Blepharoneuron tricholepis</i>                           | <i>Blepharoneuron tricholepis</i>                         |                 |          |         |          |                   | Non-weedy |           |                     |                                          |
| BOCO2       | <i>Boerhavia coulteri</i>                                   | <i>Boerhaavia coulteri</i>                                |                 |          |         |          |                   |           | Y         | Eddleman(1984)      | Dominant in mixed community in old field |

## ROOTS CON'T

| USDA Symbol | USDA NRCS PLANTS                | Martin and Hutchins (1980)                          | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible | Weediness     | Oldfields | Oldfield References     | Oldfield Comments           |
|-------------|---------------------------------|-----------------------------------------------------|-----------------|----------|---------|----------|--------|---------------|-----------|-------------------------|-----------------------------|
| BOMU        | <i>Botrychium multifidum</i>    | <i>Botrychium multifidum</i> subsp. <i>coulteri</i> |                 |          |         |          |        | Non-weedy     |           |                         |                             |
| BOAR        | <i>Bouteloua aristoides</i>     | <i>Bouteloua aristoides</i>                         |                 |          |         |          |        |               |           |                         |                             |
| BOBA2       | <i>Bouteloua barbata</i>        | <i>Bouteloua barbata</i>                            |                 |          |         | Yes      |        | Non-weedy     |           |                         |                             |
| BOCU        | <i>Bouteloua curtipendula</i>   | <i>Bouteloua curtipendula</i>                       |                 |          |         | Yes      |        | Non-weedy     |           |                         |                             |
| BOER4       | <i>Bouteloua eriopoda</i>       | <i>Bouteloua eriopoda</i>                           | Endomycorrhizal |          |         | Yes      |        | Non-weedy     |           |                         |                             |
| BOGR2       | <i>Bouteloua gracilis</i>       | <i>Bouteloua gracilis</i>                           | Endomycorrhizal | No       | No      | Yes      |        | Non-weedy     |           |                         |                             |
| BOHI2       | <i>Bouteloua hirsuta</i>        | <i>Bouteloua hirsuta</i>                            |                 |          |         | Yes      |        | Non-weedy     |           |                         |                             |
| BOSI2       | <i>Bouteloua simplex</i>        | <i>Bouteloua simplex</i>                            |                 |          |         | Maybe    |        | Non-weedy     |           |                         |                             |
| BRJU        | <i>Brassica juncea</i>          | <i>Brassica juncea</i>                              | Nonmycorrhizal  |          |         |          |        | Noxious-CO/ND |           |                         |                             |
| BRNI        | <i>Brassica nigra</i>           | <i>Brassica nigra</i>                               | Nonmycorrhizal  |          |         |          | Yes    | Noxious-CO/ND |           |                         |                             |
| BRBE        | <i>Brickellia betonicifolia</i> | <i>Brickellia betonicaefolia</i>                    |                 |          |         |          |        |               | Y         | Carson & Barrett (1988) | Dominant in older community |
| BRBR2       | <i>Brickellia brachyphylla</i>  | <i>Brickellia brachyphylla</i>                      |                 |          |         |          |        | Non-weedy     |           |                         |                             |
| BRCA3       | <i>Brickellia californica</i>   | <i>Brickellia californica</i>                       | Nonmycorrhizal  |          |         |          |        | Non-weedy     |           |                         |                             |
| BRFE        | <i>Brickellia fendleri</i>      | <i>Brickellia fendleri</i>                          |                 |          |         |          |        |               |           |                         |                             |
| BRGR        | <i>Brickellia grandiflora</i>   | <i>Brickellia grandiflora</i>                       |                 |          |         |          |        | Non-weedy     |           |                         |                             |
| BRAN        | <i>Bromus anomalus</i>          | <i>Bromus anomalus</i>                              |                 |          |         | Maybe    |        | Non-weedy     |           |                         |                             |
| BRCA6       | <i>Bromus catharticus</i>       | <i>Bromus catharticus</i>                           |                 |          |         |          |        |               |           |                         |                             |
| BRCI2       | <i>Bromus ciliatus</i>          | <i>Bromus ciliatus</i>                              |                 |          |         | Maybe    |        | Non-weedy     |           |                         |                             |
| BRFR2       | <i>Bromus frondosus</i>         | <i>Bromus frondosus</i>                             |                 |          |         | Maybe    |        | Non-weedy     |           |                         |                             |
| BRIN2       | <i>Bromus inermis</i>           | <i>Bromus inermis</i>                               |                 | No       | No      | Maybe    |        | Non-weedy     |           |                         |                             |
| BRJA        | <i>Bromus japonicus</i>         | <i>Bromus japonicus</i>                             |                 |          |         | Maybe    |        | Colonizing    |           |                         |                             |
| BRLA6       | <i>Bromus lanatipes</i>         | <i>Bromus lanatipes</i>                             |                 |          |         | Maybe    |        | Non-weedy     |           |                         |                             |
| BRMA4       | <i>Bromus marginatus</i>        | <i>Bromus marginatus</i>                            |                 |          |         | Yes      |        | Colonizing    |           |                         |                             |
| BRKA2       | <i>Bromus kalmii</i>            | <i>Bromus purgans</i>                               |                 |          |         | Maybe    |        | Non-weedy     |           |                         |                             |
| BRTE        | <i>Bromus tectorum</i>          | <i>Bromus tectorum</i>                              | Endomycorrhizal | No       | No      | Yes      |        | Economic      |           |                         |                             |
| BUDA        | <i>Buchloe dactyloides</i>      | <i>Buchloe dactyloides</i>                          |                 | No       | No      | No       |        | Non-weedy     |           |                         |                             |
| CAGU        | <i>Calochortus gunnisonii</i>   | <i>Calochortus gunnisonii</i>                       |                 |          |         |          | Yes    | Non-weedy     |           |                         |                             |
| CANU3       | <i>Calochortus nuttallii</i>    | <i>Calochortus nuttallii</i>                        |                 |          |         |          | Yes    | Non-weedy     |           |                         |                             |
| CAHA14      | <i>Calylophus hartwegii</i>     | <i>Calylophus hartwegii</i>                         |                 |          |         |          |        | Non-weedy     |           |                         |                             |
| CABU        | <i>Calypso bulbosa</i>          | <i>Calypso bulbosa</i>                              |                 |          |         |          |        | Non-weedy     |           |                         |                             |
| CAMI2       | <i>Camelina microcarpa</i>      | <i>Camelina microcarpa</i>                          | Nonmycorrhizal  |          |         |          |        | Economic      |           |                         |                             |
| CAPA10      | <i>Campanula parryi</i>         | <i>Campanula parryi</i>                             |                 |          |         | No       |        | Colonizing    |           |                         |                             |

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| USDA Symbol | USDA NRCS PLANTS                               | Martin and Hutchins (1980)      | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible            | Weediness          | Oldfields | Oldfield References     | Oldfield Comments             |
|-------------|------------------------------------------------|---------------------------------|-----------------|----------|---------|----------|-------------------|--------------------|-----------|-------------------------|-------------------------------|
| CARO2       | <i>Campanula rotundifolia</i>                  | <i>Campanula rotundifolia</i>   | Endomycorrhizal |          |         |          |                   | Non-weedy          |           |                         |                               |
| CABU2       | <i>Capsella bursa-pastoris</i>                 | <i>Capsella bursa-pastoris</i>  | Nonmycorrhizal  |          |         |          | Yes               | Economic           |           |                         |                               |
| CACO6       | <i>Cardamine cordifolia</i>                    | <i>Cardamine cordifolia</i>     | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CADR        | <i>Cardaria draba</i>                          | <i>Cardaria draba</i>           | Nonmycorrhizal  |          |         |          |                   | Noxious-All States |           |                         |                               |
| CANU4       | <i>Carduus nutans</i>                          | <i>Carduus nutans</i>           |                 |          |         |          |                   | Noxious-CO/UT      |           |                         |                               |
| CAAQ        | <i>Carex aquatilis</i>                         | <i>Carex aquatilis</i>          |                 |          |         |          |                   |                    |           |                         |                               |
| CABE3       | <i>Carex bella</i>                             | <i>Carex bella</i>              | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CABO2       | <i>Carex bolanderi</i>                         | <i>Carex bolanderi</i>          | Nonmycorrhizal  |          |         | No       |                   | Non-weedy          |           |                         |                               |
| CABR10      | <i>Carex brevior</i>                           | <i>Carex brevior</i>            | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CACA11      | <i>Carex canescens</i>                         | <i>Carex canescens</i>          | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CADO2       | <i>Carex douglasii</i>                         | <i>Carex douglasii</i>          | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CADU6       | <i>Carex duriuscula</i>                        | <i>Carex eleocharis</i>         | Nonmycorrhizal  | No       | No      |          |                   | Non-weedy          |           |                         |                               |
| CAMI7       | <i>Carex microptera</i>                        | <i>Carex festivella</i>         | Nonmycorrhizal  |          |         |          |                   | Nonmycorrhizal     |           |                         |                               |
| CAFO3       | <i>Carex foenea</i>                            | <i>Carex foenea</i>             | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAGE        | <i>Carex geophila</i>                          | <i>Carex geophila</i>           | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAHY4       | <i>Carex hystericina</i>                       | <i>Carex hystericina</i>        | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAIN11      | <i>Carex interior</i>                          | <i>Carex interior</i>           | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CALA30      | <i>Carex lanuginosa</i>                        | <i>Carex lanuginosa</i>         | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CANE2       | <i>Carex nebraskensis</i>                      | <i>Carex nebraskensis</i>       | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAOC2       | <i>Carex occidentalis</i>                      | <i>Carex occidentalis</i>       | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAPR5       | <i>Carex praegracilis</i>                      | <i>Carex praegracilis</i>       | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CASC11      | <i>Carex scoparia</i>                          | <i>Carex scoparia</i>           | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAST5       | <i>Carex stipata</i>                           | <i>Carex stipata</i>            | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAXE        | <i>Carex xerantica</i>                         | <i>Carex xerantica</i>          | Nonmycorrhizal  |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>  | <i>Castilleja confusa</i>       |                 |          |         |          |                   |                    | Y         | Goldberg & Gross (1988) | Dominant on mesic sites       |
| CAIN14      | <i>Castilleja integra</i>                      | <i>Castilleja integra</i>       |                 |          |         |          |                   | Non-weedy          |           |                         |                               |
| CALI4       | <i>Castilleja linariifolia</i>                 | <i>Castilleja linariaefolia</i> |                 | Possible | Maybe   |          |                   | Non-weedy          |           |                         |                               |
| CALI5       | <i>Castilleja lineata</i>                      | <i>Castilleja lineata</i>       |                 |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAMI12      | <i>Castilleja miniata</i>                      | <i>Castilleja miniata</i>       |                 |          |         |          |                   | Non-weedy          |           |                         |                               |
| CAMI13      | <i>Castilleja minor</i>                        | <i>Castilleja minor</i>         |                 |          |         |          |                   | Non-weedy          |           |                         |                               |
| CARH4       | <i>Castilleja rhexiifolia</i>                  | <i>Castilleja rhexifolia</i>    |                 |          |         |          |                   | Non-weedy          | Y         | Collins & Uno (1983)    | Does better on unburned lands |
| CEFE        | <i>Ceanothus fendleri</i>                      | <i>Ceanothus fendleri</i>       |                 | Reported | Maybe   |          | Yes               | Non-weedy          |           |                         |                               |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i> | <i>Celtis reticulata</i>        |                 |          |         | Maybe    | Yes-<br>Qualified | Non-weedy          |           |                         |                               |



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|-------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-----------------------------|
| CEEC        | <i>Cenchrus echinatus</i>                             | <i>Cenchrus echinatus</i>                                 |                 |          |         |          |                   |            |           |                     |                             |
| CEIN4       | <i>Cenchrus incertus</i>                              | <i>Cenchrus pauciflorus</i>                               |                 |          |         |          |                   |            |           |                     |                             |
| CECA3       | <i>Centaureum calycosum</i>                           | <i>Centaureum calycosum</i>                               |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                                  | Endomycorrhizal |          |         |          |                   | Non-weedy  |           |                     |                             |
| CEBR3       | <i>Cerastium brachypodum</i>                          | <i>Cerastium brachypodum</i>                              |                 |          |         |          |                   |            |           |                     |                             |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                                 |                 |          |         |          |                   |            |           |                     |                             |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>          | Endomycorrhizal | Reported | Maybe   |          |                   | Non-weedy  |           |                     |                             |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>     |                 |          |         |          |                   |            |           |                     |                             |
| CHCO        | <i>Chamaesaracha coniodes</i>                         | <i>Chamaesaracha coniodes</i>                             |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| CHCO2       | <i>Chamaesaracha coronopus</i>                        | <i>Chamaesaracha coronopus</i>                            |                 |          |         |          | Yes               | Non-weedy  |           |                     |                             |
| CHFE        | <i>Cheilanthes feei</i>                               | <i>Cheilanthes feei</i>                                   |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| CHFE2       | <i>Cheilanthes fendleri</i>                           | <i>Cheilanthes fendleri</i>                               |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| CHTO2       | <i>Cheilanthes tomentosa</i>                          | <i>Cheilanthes tomentosa</i>                              |                 |          |         |          |                   |            |           |                     |                             |
| CHEA        | <i>Cheilanthes eatonii</i>                            | <i>Cheilanthes eatonii</i>                                |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| CHAL6       | <i>Chenopodium albescens</i>                          | <i>Chenopodium albescens</i>                              | Nonmycorrhizal  |          |         | Maybe    |                   | Non-weedy  |           |                     |                             |
| CHAL7       | <i>Chenopodium album</i>                              | <i>Chenopodium album</i>                                  | Nonmycorrhizal  |          |         | Yes      | Yes               | Economic   |           |                     |                             |
| CHBE4       | <i>Chenopodium berlandieri</i>                        | <i>Chenopodium berlandieri</i>                            | Nonmycorrhizal  |          |         | Maybe    | Yes               | Economic   | Y         | Koniak(1985)        | Dominant in late succession |
| CHCA4       | <i>Chenopodium capitatum</i>                          | <i>Chenopodium capitatum</i>                              | Nonmycorrhizal  |          |         | Maybe    | Yes               | Non-weedy  |           |                     |                             |
| CHCY        | <i>Chenopodium cycloides</i>                          | <i>Chenopodium cycloides</i>                              | Nonmycorrhizal  |          |         | Maybe    |                   | Non-weedy  |           |                     |                             |
| CHDE        | <i>Chenopodium desiccatum</i>                         | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>      | Nonmycorrhizal  |          |         | Maybe    | Yes-<br>Qualified | Colonizing |           |                     |                             |
| CHPR5       | <i>Chenopodium pratericola</i>                        | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i> | Nonmycorrhizal  |          |         | Maybe    | Yes-<br>Qualified | Colonizing |           |                     |                             |
| CHFR3       | <i>Chenopodium fremontii</i>                          | <i>Chenopodium fremontii</i>                              | Nonmycorrhizal  |          |         | Maybe    | Yes               | Non-weedy  |           |                     |                             |

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|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-----------------------------------|
| CHSI2       | <i>Chenopodium simplex</i>                                                             | <i>Chenopodium gigantospermum</i>                              |                 |          |         |          |                   |            |           |                     |                                   |
| CHGL3       | <i>Chenopodium glaucum</i>                                                             | <i>Chenopodium glaucum</i>                                     | Nonmycorrhizal  |          |         | Yes      | Yes-<br>Qualified | Colonizing |           |                     |                                   |
| CHGR2       | <i>Chenopodium graveolens</i>                                                          | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>         | Nonmycorrhizal  |          |         | Maybe    |                   | Colonizing |           |                     |                                   |
| CHIN2       | <i>Chenopodium incanum</i>                                                             | <i>Chenopodium incanum</i>                                     | Nonmycorrhizal  |          |         | Maybe    |                   | Non-weedy  |           |                     |                                   |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                                        | <i>Chenopodium leptophyllum</i>                                | Nonmycorrhizal  |          |         | Maybe    | Yes               | Non-weedy  |           |                     |                                   |
| CHRU        | <i>Chenopodium rubrum</i>                                                              | <i>Chenopodium rubrum</i>                                      | Nonmycorrhizal  |          |         | Maybe    | Yes               | Non-weedy  |           |                     |                                   |
| CHWA        | <i>Chenopodium watsonii</i>                                                            | <i>Chenopodium watsonii</i>                                    | Nonmycorrhizal  |          |         | Maybe    |                   | Non-weedy  |           |                     |                                   |
| CHUM        | <i>Chimaphila umbellata</i>                                                            | <i>Chimaphila umbellata</i>                                    |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                                   |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         |                 |          |         |          |                   | Colonizing |           |                     |                                   |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      |                 |          |         |          |                   |            |           |                     |                                   |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         | Endomycorrhizal | Possible | Maybe   |          |                   | Economic   |           |                     |                                   |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      |                 |          |         |          |                   |            |           |                     |                                   |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           |                 |          |         |          |                   |            |           |                     |                                   |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             |                 |          |         |          |                   | Non-weedy  |           |                     |                                   |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> | Endomycorrhizal | Possible | Maybe   |          |                   | Non-weedy  |           |                     |                                   |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        |                 |          |         |          |                   | Economic   |           |                     |                                   |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          |                 |          |         |          |                   | Non-weedy  |           |                     |                                   |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    |                 |          |         | No       | Yes               |            | Y         |                     | Dominant in old field communities |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                                            | <i>Cirsium ochrocentrum</i>                                    |                 |          |         |          | Yes               | Non-weedy  |           |                     |                                   |
| CIPA5       | <i>Cirsium pallidum</i>                                                                | <i>Cirsium pallidum</i>                                        |                 |          |         |          | Yes               | Non-weedy  |           |                     |                                   |
| CIPA        | <i>Cirsium parryi</i>                                                                  | <i>Cirsium parryi</i>                                          |                 |          |         |          | Yes               | Non-weedy  |           |                     |                                   |

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|-------------|---------------------------------------------------|---------------------------------|-----------------|----------|---------|----------|----------------|--------------------|-----------|----------------------------------------------|-----------------------------------------------------------|
| CICA10      | <i>Cirsium calcareum</i>                          | <i>Cirsium pulchellum</i>       |                 |          |         |          | Yes            | Non-weedy          |           |                                              |                                                           |
| CIUN        | <i>Cirsium undulatum</i>                          | <i>Cirsium undulatum</i>        |                 |          |         |          | Yes            | Economic           |           |                                              |                                                           |
| CIVU        | <i>Cirsium vulgare</i>                            | <i>Cirsium vulgare</i>          | Endomycorrhizal |          |         | Yes      | Yes            | Economic           |           |                                              |                                                           |
| CLDR        | <i>Clematis drummondii</i>                        | <i>Clematis drummondii</i>      |                 |          |         |          |                |                    |           |                                              |                                                           |
| CLLI2       | <i>Clematis ligusticifolia</i>                    | <i>Clematis ligusticifolia</i>  |                 | No       |         |          |                | Non-weedy          |           |                                              |                                                           |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i> | <i>Clematis pseudoalpina</i>    |                 |          |         |          |                |                    |           |                                              |                                                           |
| CLSE        | <i>Cleome serrulata</i>                           | <i>Cleome serrulata</i>         |                 | Possible | Maybe   |          | Yes            | Economic           |           |                                              |                                                           |
| CLVU        | <i>Clinopodium vulgare</i>                        | <i>Clinopodium vulgare</i>      |                 |          |         |          |                |                    |           |                                              |                                                           |
| COLI2       | <i>Collomia linearis</i>                          | <i>Collomia linearis</i>        |                 |          |         |          |                | Non-weedy          |           |                                              |                                                           |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>     | <i>Comandra pallida</i>         |                 |          |         |          |                |                    |           |                                              |                                                           |
| CODI4       | <i>Commelina dianthifolia</i>                     | <i>Commelina dianthifolia</i>   | Nonmycorrhizal  |          |         |          |                | Non-weedy          |           |                                              |                                                           |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>     | <i>Conopholis mexicana</i>      |                 |          |         |          |                |                    |           |                                              |                                                           |
| COAR4       | <i>Convolvulus arvensis</i>                       | <i>Convolvulus arvensis</i>     |                 |          |         |          |                | Noxious-All states |           |                                              |                                                           |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>       | <i>Convolvulus sepium</i>       |                 |          |         |          |                |                    |           |                                              |                                                           |
| COCA5       | <i>Conyza canadensis</i>                          | <i>Conyza canadensis</i>        | Endomycorrhizal |          |         |          |                | Economic           |           |                                              |                                                           |
| COMA4       | <i>Corallorrhiza maculata</i>                     | <i>Corallorrhiza maculata</i>   |                 |          |         |          |                | Non-weedy          |           |                                              |                                                           |
| COST        | <i>Corallorrhiza striata</i>                      | <i>Corallorrhiza striata</i>    |                 |          |         |          |                | Non-weedy          |           |                                              |                                                           |
| COWR2       | <i>Cordylanthus wrightii</i>                      | <i>Cordylanthus wrightii</i>    |                 |          |         |          |                | Non-weedy          |           |                                              |                                                           |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i>  | <i>Coreopsis cardaminefolia</i> |                 |          |         |          |                |                    |           |                                              |                                                           |
| COTI3       | <i>Coreopsis tinctoria</i>                        | <i>Coreopsis tinctoria</i>      |                 |          |         |          |                | Non-weedy          | Y         | Brand & Goetz (1986); Inouye & Tilman (1988) | Does better on ungrazed land; Dominant on older community |
| COSA        | <i>Coriandrum sativum</i>                         | <i>Coriandrum sativum</i>       |                 |          |         |          | Yes            | Colonizing         | Y         | Cholewa & Johnson (1983)                     | Dominant in Pseudotsugamenziesii climax community         |
| COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i>         | <i>Cornus stolonifera</i>       |                 |          |         |          | Yes- Qualified | Non-weedy          |           |                                              |                                                           |
| COAU2       | <i>Corydalis aurea</i>                            | <i>Corydalis aurea</i>          | Nonmycorrhizal  |          |         |          |                | Colonizing         |           |                                              |                                                           |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>    | <i>Coryphantha vivipara</i>     |                 |          |         |          | Yes- Qualified | Non-weedy          |           |                                              |                                                           |
| COPA12      | <i>Cosmos parviflorus</i>                         | <i>Cosmos parviflorus</i>       |                 |          |         |          |                | Non-weedy          |           |                                              |                                                           |
| CRER        | <i>Crataegus erythropoda</i>                      | <i>Crataegus erythropoda</i>    |                 |          |         | Maybe    |                | Non-weedy          |           |                                              |                                                           |
| CRTE4       | <i>Croton texensis</i>                            | <i>Croton texensis</i>          |                 |          |         |          |                | Non-weedy          |           |                                              |                                                           |
| CRFE3       | <i>Cryptantha fendleri</i>                        | <i>Cryptantha fendleri</i>      |                 |          |         |          |                | Non-weedy          |           |                                              |                                                           |

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| USDA Symbol | USDA NRCS PLANTS                               | Martin and Hutchins (1980)                            | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible            | Weediness               | Oldfields | Oldfield References     | Oldfield Comments           |
|-------------|------------------------------------------------|-------------------------------------------------------|-----------------|----------|---------|----------|-------------------|-------------------------|-----------|-------------------------|-----------------------------|
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>  | <i>Cryptantha jamesii</i>                             |                 |          |         |          |                   | Non-weedy               |           |                         |                             |
| CRM15       | <i>Cryptantha minima</i>                       | <i>Cryptantha minima</i>                              |                 |          |         |          |                   | Non-weedy               |           |                         |                             |
| CRAC3       | <i>Cryptogramma acrostichoides</i>             | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> |                 |          |         |          |                   | Non-weedy               |           |                         |                             |
| CUFO        | <i>Cucurbita foetidissima</i>                  | <i>Cucurbita foetidissima</i>                         | Endomycorrhizal |          |         |          | Yes-<br>Qualified | Economic                |           |                         |                             |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i> | <i>Cuscuta campestris</i>                             |                 |          |         |          |                   | Noxious-<br>All_States  |           |                         |                             |
| CUUM        | <i>Cuscuta umbellata</i>                       | <i>Cuscuta umbellata</i>                              |                 |          |         |          | Yes-<br>Qualified | Noxious-<br>CO/MT/ND/WY |           |                         |                             |
| CYBU        | <i>Cymopterus bulbosus</i>                     | <i>Cymopterus bulbosus</i>                            |                 |          |         |          | Yes               | Non-weedy               | Y         | Carson & Barrett (1988) | Dominant in older community |
| CYDA        | <i>Cynodon dactylon</i>                        | <i>Cynodon dactylon</i>                               | Endomycorrhizal |          |         | Yes      |                   | Noxious-UT              |           |                         |                             |
| CYEC        | <i>Cynosurus echinatus</i>                     | <i>Cynosurus echinatus</i>                            |                 |          |         |          |                   |                         |           |                         |                             |
| CYSQ        | <i>Cyperus squarrosus</i>                      | <i>Cyperus aristatus</i>                              | Nonmycorrhizal  |          |         | No       | Yes               | Non-weedy               |           |                         |                             |
| MISE3       | <i>Mitreola sessilifolia</i>                   | <i>Cyperus esculentus</i>                             | Nonmycorrhizal  |          |         | No       | Yes               | Noxious-WY              |           |                         |                             |
| CYFE2       | <i>Cyperus fendlerianus</i>                    | <i>Cyperus fendlerianus</i>                           | Nonmycorrhizal  |          |         | Now      | Yes               | Non-weedy               |           |                         |                             |
| CYBI6       | <i>Cyperus bipartitus</i>                      | <i>Cyperus rivularis</i>                              | Nonmycorrhizal  |          |         | No       | Yes               |                         |           |                         |                             |
| CYPU10      | <i>Cypripedium pubescens</i>                   | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    |                 |          |         |          |                   |                         |           |                         |                             |
| CYFR2       | <i>Cystopteris fragilis</i>                    | <i>Cystopteris fragilis</i>                           |                 |          |         |          |                   | Non-weedy               |           |                         |                             |
| DAGL        | <i>Dactylis glomerata</i>                      | <i>Dactylis glomerata</i>                             | Endomycorrhizal | No       | No      | Yes      |                   | Colonizing              |           |                         |                             |
| DABR        | <i>Dalea brachystachya</i>                     | <i>Dalea brachystachys</i>                            |                 |          |         |          |                   |                         |           |                         |                             |
| DAFO        | <i>Dalea formosa</i>                           | <i>Dalea formosa</i>                                  | Endomycorrhizal | Possible | Maybe   |          |                   | Non-weedy               |           |                         |                             |
| DALE3       | <i>Dalea leporina</i>                          | <i>Dalea leporina</i>                                 |                 | Possible | Maybe   |          |                   | Non-weedy               |           |                         |                             |
| DANA        | <i>Dalea nana</i>                              | <i>Dalea nana</i>                                     |                 | Possible | Maybe   |          |                   | Non-weedy               |           |                         |                             |
| DAPO3       | <i>Dalea polygonoides</i>                      | <i>Dalea polygonoides</i>                             |                 |          |         |          |                   |                         |           |                         |                             |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>     | <i>Dalea terminalis</i>                               |                 |          |         |          |                   |                         |           |                         |                             |
| DAIN        | <i>Danthonia intermedia</i>                    | <i>Danthonia intermedia</i>                           |                 |          |         |          |                   | Non-weedy               |           |                         |                             |
| DAPA2       | <i>Danthonia parryi</i>                        | <i>Danthonia parryi</i>                               |                 |          |         |          |                   | Non-weedy               |           |                         |                             |
| DASP2       | <i>Danthonia spicata</i>                       | <i>Danthonia spicata</i>                              |                 |          |         |          |                   | Non-weedy               |           |                         |                             |
| DAWR2       | <i>Datura wrightii</i>                         | <i>Datura meteloides</i>                              | Endomycorrhizal |          |         |          |                   | Non-weedy               |           |                         |                             |
| DEOC        | <i>Delphinium X occidentale</i>                | <i>Delphinium occidentale</i>                         |                 |          |         |          |                   | Economic                |           |                         |                             |
| DEWO        | <i>Delphinium wootonii</i>                     | <i>Delphinium virescens</i> subsp. <i>wootonii</i>    |                 |          |         |          |                   | Economic                |           |                         |                             |
| DECE        | <i>Deschampsia cespitosa</i>                   | <i>Deschampsia caespitosa</i>                         | Endomycorrhizal | No       | Maybe   |          | Yes               | Non-weedy               |           |                         |                             |

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| USDA Symbol | USDA NRCS PLANTS                                                | Martin and Hutchins (1980)                                      | Mycorrhiza     | Nod Form | Nit Fix | Hayfever | Edible | Weediness | Oldfields | Oldfield References | Oldfield Comments |
|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|----------------|----------|---------|----------|--------|-----------|-----------|---------------------|-------------------|
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>                    | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>                  | Nonmycorrhizal |          |         |          | Yes    | Non-weedy |           |                     |                   |
| DEPI        | <i>Descurainia pinnata</i>                                      | <i>Descurainia pinnata</i>                                      | Nonmycorrhizal |          |         |          | Yes    | Non-weedy |           |                     |                   |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>                    | <i>Descurainia richardsonii</i>                                 | Nonmycorrhizal |          |         |          | Yes    | Non-weedy |           |                     |                   |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>                    | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>            |                |          |         |          |        |           |           |                     |                   |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>                   | <i>Descurainia richardsonii</i> subsp. <i>procera</i>           |                |          |         |          |        |           |           |                     |                   |
| DESO2       | <i>Descurainia sophia</i>                                       | <i>Descurainia sophia</i>                                       | Nonmycorrhizal |          |         |          | Yes    | Economic  |           |                     |                   |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>                   | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i>           | Nonmycorrhizal |          |         |          | Yes    | Non-weedy |           |                     |                   |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis spicata</i>                                       |                |          |         |          |        |           |           |                     |                   |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis stricta</i>                                       |                | No       | No      |          |        | Economic  |           |                     |                   |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                                  | <i>Dithyrea wislizenii</i>                                      | Nonmycorrhizal |          |         |          |        | Non-weedy |           |                     |                   |
| DOAL        | <i>Dodecatheon alpinum</i>                                      | <i>Dodecatheon alpinum</i>                                      |                |          |         |          |        | Non-weedy |           |                     |                   |
| DOPU        | <i>Dodecatheon pulchellum</i>                                   | <i>Dodecatheon pulchellum</i>                                   |                |          |         | No       |        | Non-weedy |           |                     |                   |
| DRAU        | <i>Draba aurea</i>                                              | <i>Draba aurea</i> var. <i>aurea</i>                            | Nonmycorrhizal |          |         |          |        | Non-weedy |           |                     |                   |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>                  | <i>Draba helleriana</i> var. <i>helleriana</i>                  | Nonmycorrhizal |          |         |          |        | Non-weedy |           |                     |                   |
| DRRE        | <i>Draba rectifruta</i>                                         | <i>Draba rectifruta</i>                                         | Nonmycorrhizal |          |         |          |        | Non-weedy |           |                     |                   |
| DRRE2       | <i>Draba reptans</i>                                            | <i>Draba reptans</i>                                            | Nonmycorrhizal |          |         |          |        | Non-weedy |           |                     |                   |
| DRSP        | <i>Draba spectabilis</i>                                        | <i>Draba spectabilis</i>                                        | Nonmycorrhizal |          |         |          |        | Non-weedy |           |                     |                   |
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     | Endo/Ecto      |          |         |          |        | Non-weedy |           |                     |                   |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         |                |          |         |          |        | Economic  |           |                     |                   |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        |                |          |         |          |        | Non-weedy |           |                     |                   |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    |                |          |         |          | Yes    | Non-weedy |           |                     |                   |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> |                |          |         |          | Yes    | Non-weedy |           |                     |                   |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   |                |          |         |          | Yes    | Non-weedy |           |                     |                   |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-----------------------------|
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i> | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i> |                 |          |         |          |                   | Non-weedy  | Y         | Tilman (1986)       | Dominant in late succession |
| ECCR        | <i>Echinochloa crus-galli</i>                             | <i>Echinochloa crus-galli</i>                             |                 |          |         |          |                   |            |           |                     |                             |
| ELAN        | <i>Elaeagnus angustifolia</i>                             | <i>Elaeagnus angustifolia</i>                             |                 | Reported | Yes     |          |                   | Non-weedy  |           |                     |                             |
| ELPA3       | <i>Eleocharis palustris</i>                               | <i>Eleocharis macrostachya</i>                            |                 |          |         |          |                   |            |           |                     |                             |
| ELCA4       | <i>Elymus canadensis</i>                                  | <i>Elymus canadensis</i>                                  |                 |          |         |          | Yes               | Non-weedy  |           |                     |                             |
| ELGL        | <i>Elymus glaucus</i>                                     | <i>Elymus glaucus</i>                                     |                 |          |         | Yes      |                   | Non-weedy  |           |                     |                             |
| ELVI3       | <i>Elymus virginicus</i>                                  | <i>Elymus virginicus</i>                                  |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| EPTO        | <i>Ephedra torreyana</i>                                  | <i>Ephedra torreyana</i>                                  |                 |          |         |          | Yes               | Non-weedy  |           |                     |                             |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                | <i>Ephedra viridis</i> var. <i>viridis</i>                |                 | Possible | Maybe   |          |                   | Non-weedy  |           |                     |                             |
| EPAN2       | <i>Epilobium angustifolium</i>                            | <i>Epilobium angustifolium</i>                            | Endomycorrhizal |          |         |          | Yes               | Non-weedy  |           |                     |                             |
| EPCI        | <i>Epilobium ciliatum</i>                                 | <i>Epilobium ciliatum</i>                                 |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| EPOR2       | <i>Epilobium oregonense</i>                               | <i>Epilobium oregonense</i>                               |                 |          |         |          |                   |            |           |                     |                             |
| EPBR3       | <i>Epilobium brachycarpum</i>                             | <i>Epilobium paniculatum</i>                              |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| EPGI        | <i>Epipactis gigantea</i>                                 | <i>Epipactis gigantea</i>                                 |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| EQAR        | <i>Equisetum arvense</i>                                  | <i>Equisetum arvense</i>                                  | Nonmycorrhizal  |          |         |          | Yes               | Economic   |           |                     |                             |
| EQHY        | <i>Equisetum hyemale</i>                                  | <i>Equisetum hiemale</i>                                  |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| EQLA        | <i>Equisetum laevigatum</i>                               | <i>Equisetum laevigatum</i>                               |                 |          |         |          | Yes-<br>Qualified | Economic   |           |                     |                             |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>        | <i>Eragrostis arida</i>                                   |                 |          |         |          |                   |            |           |                     |                             |
| ERBA2       | <i>Eragrostis barrelieri</i>                              | <i>Eragrostis barrelieri</i>                              |                 |          |         |          |                   | Colonizing |           |                     |                             |
| ERC1        | <i>Eragrostis cilianensis</i>                             | <i>Eragrostis cilianensis</i>                             | Endomycorrhizal | No       | No      |          |                   | Economic   |           |                     |                             |
| ERCU2       | <i>Eragrostis curvula</i>                                 | <i>Eragrostis curvula</i>                                 |                 |          |         | No       |                   | Colonizing |           |                     |                             |
| ERHY        | <i>Eragrostis hypnoides</i>                               | <i>Eragrostis hypnoides</i>                               |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| ERPE        | <i>Eragrostis pectinacea</i>                              | <i>Eragrostis pectinacea</i>                              |                 |          |         |          |                   | Colonizing |           |                     |                             |
| ERTR3       | <i>Eragrostis trichodes</i>                               | <i>Eragrostis trichodes</i>                               |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| ERCA4       | <i>Erigeron canus</i>                                     | <i>Erigeron canus</i>                                     |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| ERDI4       | <i>Erigeron divergens</i>                                 | <i>Erigeron divergens</i>                                 |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| EREL9       | <i>Erigeron elatior</i>                                   | <i>Erigeron elatior</i>                                   |                 |          |         |          |                   | Non-weedy  |           |                     |                             |
| ERFL        | <i>Erigeron flagellaris</i>                               | <i>Erigeron flagellaris</i>                               |                 |          |         |          |                   | Non-weedy  |           |                     |                             |

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|-------------|---------------------------------------------------------|---------------------------------------------------------|-----------------|----------|---------|----------|--------|------------|-----------|----------------------|------------------------------|
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> |                 |          |         |          |        | Non-weedy  |           |                      |                              |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus viscidus</i>                  |                 |          |         |          |        | Non-weedy  |           |                      |                              |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              |                 |          |         |          |        |            |           |                      |                              |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  |                 |          |         | Maybe    |        | Non-weedy  |           |                      |                              |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          |                 |          |         |          |        | Non-weedy  |           |                      |                              |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            |                 |          |         |          |        |            |           |                      |                              |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinnus</i>         | <i>Erigeron pumilus</i> subsp. <i>concinoides</i>       |                 |          |         | Maybe    |        | Non-weedy  |           |                      |                              |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              |                 |          |         |          |        |            |           |                      |                              |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 |                 |          |         | No       |        | Colonizing |           |                      |                              |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        |                 |          |         |          |        | Non-weedy  |           |                      |                              |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            |                 |          |         |          |        | Non-weedy  | Y         | Collins & Uno (1983) | Does better on unburned land |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                |                 |          |         |          |        | Non-weedy  |           |                      |                              |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               |                 |          |         |          |        |            |           |                      |                              |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                |                 |          |         |          |        | Non-weedy  |           |                      |                              |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               |                 |          |         |          |        |            |           |                      |                              |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             |                 |          |         |          |        |            |           |                      |                              |
| ERAL4       | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                      |                              |
| ERAN4       | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                      |                              |
| ERCE2       | <i>Eriogonum cernuum</i>                                | <i>Eriogonum cernuum</i>                                | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                      |                              |
| EREF        | <i>Eriogonum effusum</i>                                | <i>Eriogonum effusum</i>                                | Endomycorrhizal |          |         |          |        | Non-weedy  |           |                      |                              |
| ERJA        | <i>Eriogonum jamesii</i>                                | <i>Eriogonum jamesii</i>                                | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                      |                              |
| ERLE9       | <i>Eriogonum leptoclados</i>                            | <i>Eriogonum leptoclados</i>                            | Nonmycorrhizal  |          |         |          |        |            |           |                      |                              |
| ERPO4       | <i>Eriogonum polycladon</i>                             | <i>Eriogonum polycladon</i>                             | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                      |                              |
| ERRA3       | <i>Eriogonum racemosum</i>                              | <i>Eriogonum racemosum</i>                              | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                      |                              |
| ERIC6       | <i>Erodium cicutarium</i>                               | <i>Erodium cicutarium</i>                               |                 |          |         |          | Yes    | Economic   |           |                      |                              |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>         | <i>Erysimum asperum</i>                                 | Nonmycorrhizal  | No       | No      |          |        | Non-weedy  |           |                      |                              |

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| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                        | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible            | Weediness | Oldfields | Oldfield References     | Oldfield Comments            |
|-------------|-----------------------------------------------------------|---------------------------------------------------|-----------------|----------|---------|----------|-------------------|-----------|-----------|-------------------------|------------------------------|
| ERCA14      | <i>Erysimum capitatum</i>                                 | <i>Erysimum capitatum</i>                         |                 |          |         |          |                   |           |           |                         |                              |
| ERIN7       | <i>Erysimum inconspicuum</i>                              | <i>Erysimum inconspicuum</i>                      | Nonmycorrhizal  |          |         |          |                   | Non-weedy |           |                         |                              |
| ERHE7       | <i>Erythronium hendersonii</i>                            | <i>Eupatorium herbaceum</i>                       |                 |          |         | Maybe    |                   | Non-weedy |           |                         |                              |
| CHAL11      | <i>Chamaesyce albomarginata</i>                           | <i>Euphorbia albomarginata</i>                    |                 |          |         |          |                   | Economic  |           |                         |                              |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i>                          |                 |          |         | No       | Poison            | Economic  |           |                         |                              |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>  |                 |          |         | No       | Poison            | Economic  |           |                         |                              |
| EUEX4       | <i>Euphorbia exstipulata</i>                              | <i>Euphorbia exstipulata</i>                      |                 |          |         | No       | Poison            | Non-weedy |           |                         |                              |
| CHFE3       | <i>Chamaesyce fendleri</i>                                | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    |                 |          |         |          |                   | Non-weedy |           |                         |                              |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>               | <i>Euphorbia geyeri</i>                           |                 |          |         |          |                   | Non-weedy |           |                         |                              |
| EULU        | <i>Euphorbia lurida</i>                                   | <i>Euphorbia lurida</i>                           |                 |          |         |          |                   | Non-weedy |           |                         |                              |
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> |                 |          |         |          |                   | Non-weedy |           |                         |                              |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      |                 |          |         |          |                   |           |           |                         |                              |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         |                 |          |         |          |                   | Non-weedy |           |                         |                              |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          | Endomycorrhizal |          |         |          |                   | Non-weedy |           |                         |                              |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    |                 |          |         |          | Yes-<br>Qualified | Economic  |           |                         |                              |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             |                 |          |         |          |                   |           | Y         | Goldberg & Gross (1988) | Dominant on mesic sites      |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                          |                 |          |         |          |                   |           |           |                         |                              |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                          | Endomycorrhizal |          |         |          |                   | Non-weedy |           |                         |                              |
| FERUR       | <i>Fendlera rupicola</i> var. <i>rupicola</i>             | <i>Fendlera rupicola</i> var. <i>rupicola</i>     | Endomycorrhizal |          |         |          |                   | Non-weedy |           |                         |                              |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                          | Endomycorrhizal |          |         | Maybe    |                   | Non-weedy |           |                         |                              |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                            |                 |          |         |          |                   |           |           |                         |                              |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                          |                 |          |         |          |                   |           | Y         | Collins & Uno (1983)    | Does better on unburned land |
| FEOV        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                              | Endomycorrhizal |          |         | Yes      | Yes               | Non-weedy |           |                         |                              |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                            |                 |          |         | Maybe    |                   | Non-weedy |           |                         |                              |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                           | Endomycorrhizal | No       | No      | Maybe    |                   | Non-weedy |           |                         |                              |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                     |                 |          |         |          |                   | Non-weedy |           |                         |                              |



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|-------------|---------------------------------------------------|-------------------------------------------------|------------|----------|---------|----------|--------|-----------|-----------|---------------------|---------------------------------|
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>       | <i>Fragaria americana</i>                       |            |          |         |          |        |           |           |                     |                                 |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i> | <i>Fragaria ovalis</i>                          |            |          |         |          |        |           | Y         | Eddleman(1984)      | Dominant in old field community |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                | <i>Franseria acanthicarpa</i>                   |            |          |         |          |        |           |           |                     |                                 |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                 | <i>Franseria confertiflora</i>                  |            |          |         |          |        |           |           |                     |                                 |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.               | <i>Gaillardia pinnatifida</i>                   |            |          |         |          |        | Non-weedy |           |                     |                                 |
| GAAP2       | <i>Galium aparine</i> L.                          | <i>Galium aparine</i>                           |            |          |         |          |        | Non-weedy |           |                     |                                 |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>aspermum</i>      | <i>Galium aspermum</i>                          |            |          |         |          |        |           |           |                     |                                 |
| GABO2       | <i>Galium boreale</i>                             | <i>Galium boreale</i>                           |            |          |         |          |        | Non-weedy |           |                     |                                 |
| GAFE        | <i>Galium fendleri</i>                            | <i>Galium fendleri</i>                          |            |          |         |          |        |           |           |                     |                                 |
| GAMI        | <i>Galium microphyllum</i>                        | <i>Galium microphyllum</i>                      |            |          |         |          |        |           |           |                     |                                 |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>    | <i>Galium tinctorum</i> var. <i>subbiflorum</i> |            |          |         |          |        |           |           |                     |                                 |
| GACO5       | <i>Gaura coccinea</i>                             | <i>Gaura coccinea</i>                           |            |          |         |          |        | Non-weedy |           |                     |                                 |
| GAPA6       | <i>Gaura parviflora</i>                           | <i>Gaura parviflora</i>                         |            |          |         |          |        | Non-weedy |           |                     |                                 |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana affinis</i>                         |            |          |         |          |        | Non-weedy |           |                     |                                 |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana bigelovii</i>                       |            |          |         |          |        |           |           |                     |                                 |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana plebeia</i>                         |            |          |         |          |        |           |           |                     |                                 |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana strictiflora</i>                    |            |          |         |          |        |           |           |                     |                                 |
| GECA3       | <i>Geranium caespitosum</i>                       | <i>Geranium caespitosum</i>                     |            |          |         |          |        |           |           |                     |                                 |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i> | <i>Geranium fremontii</i>                       |            |          |         |          |        | Non-weedy |           |                     |                                 |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>    | <i>Geranium fremontii</i> var. <i>parryi</i>    |            |          |         |          |        |           |           |                     |                                 |
| GERI        | <i>Geranium richardsonii</i>                      | <i>Geranium richardsonii</i>                    |            |          |         |          |        | Non-weedy |           |                     |                                 |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>   | <i>Geum macrophyllum</i> var. <i>perincisum</i> |            |          |         |          |        | Non-weedy |           |                     |                                 |
| GERI2       | <i>Geum rivale</i>                                | <i>Geum rivale</i>                              |            |          |         | No       |        | Non-weedy |           |                     |                                 |
| GEAL3       | <i>Geum aleppicum</i>                             | <i>Geum strictum</i> var. <i>strictum</i>       |            |          |         |          |        |           |           |                     |                                 |

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|-------------|---------------------------------------------------------|--------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-------------------|
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>              | <i>Geum triflorum</i> var. <i>ciliatum</i>       |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>          | <i>Gilia flavocincta</i> subsp. <i>australis</i> |                 |          |         |          |                   |            |           |                     |                   |
| GILE3       | <i>Gilia leptomeria</i>                                 | <i>Gilia leptomeria</i>                          |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| GIPI        | <i>Gilia pinnatifida</i>                                | <i>Gilia pinnatifida</i>                         |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| GLBO        | <i>Glyceria borealis</i>                                | <i>Glyceria borealis</i>                         |                 |          | Yes     |          |                   | Non-weedy  |           |                     |                   |
| GLGR        | <i>Glyceria grandis</i>                                 | <i>Glyceria grandis</i>                          |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| GLST        | <i>Glyceria striata</i>                                 | <i>Glyceria striata</i>                          |                 | No       | No      |          |                   | Non-weedy  |           |                     |                   |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                             | <i>Glycyrrhiza lepidota</i>                      |                 | Reported | Maybe   |          | Yes               | Economic   |           |                     |                   |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| GNEX        | <i>Gnaphalium exilifolium</i>                           | <i>Gnaphalium grayi</i>                          |                 |          |         |          |                   |            |           |                     |                   |
| PSMA11      | <i>Pseudognaphalium macounii</i>                        | <i>Gnaphalium macounii</i>                       |                 |          |         |          |                   |            |           |                     |                   |
| GNPA        | <i>Gnaphalium palustre</i>                              | <i>Gnaphalium palustre</i>                       |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i> | <i>Gnaphalium wrightii</i>                       |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| GOOB2       | <i>Goodyera oblongifolia</i>                            | <i>Goodyera oblongifolia</i>                     |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| GORE2       | <i>Goodyera repens</i>                                  | <i>Goodyera repens</i>                           |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>            | <i>Grindelia aphanactis</i>                      |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| GRFA        | <i>Grindelia fastigiata</i>                             | <i>Grindelia fastigiata</i>                      |                 |          |         |          |                   | Colonizing |           |                     |                   |
| GRSQ        | <i>Grindelia squarrosa</i>                              | <i>Grindelia squarrosa</i>                       |                 |          |         |          |                   | Economic   |           |                     |                   |
| GUMI        | <i>Gutierrezia microcephala</i>                         | <i>Gutierrezia microcephala</i>                  | Endomycorrhizal |          |         |          |                   | Economic   |           |                     |                   |
| GUSA2       | <i>Gutierrezia sarothrae</i>                            | <i>Gutierrezia sarothrae</i>                     | Endomycorrhizal |          |         |          |                   | Economic   |           |                     |                   |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>    | <i>Habenaria hyperborea</i>                      |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>  | <i>Habenaria sparsiflora</i>                     |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| HAFL2       | <i>Hackelia floribunda</i>                              | <i>Hackelia floribunda</i>                       |                 |          |         |          |                   | Economic   |           |                     |                   |
| HABE3       | <i>Hackelia besseyi</i>                                 | <i>Hackelia grisea</i>                           |                 |          |         |          |                   |            |           |                     |                   |
| HAPI2       | <i>Hackelia pinetorum</i>                               | <i>Hackelia pinetorum</i>                        |                 |          |         |          |                   |            |           |                     |                   |
| PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i>              | <i>Haplopappus croceus</i>                       |                 |          |         |          |                   |            |           |                     |                   |

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|-------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|-------------------------------------------------------------|----------------------------------------------------------------------------------------|
| MAGR10      | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                            |                 |          |         |          |                   | Non-weedy  |           |                                                             |                                                                                        |
| MAGR6       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                           |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| SOPA4       | <i>Solidago parryi</i>                                                            | <i>Haplopappus parryi</i>                              |                 |          |         |          |                   | Non-weedy  |           |                                                             |                                                                                        |
| MAPI4       | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                              |                 |          |         |          | Yes-<br>Qualified | Colonizing |           |                                                             |                                                                                        |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                    |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| HEOB        | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                            |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| HEPU12      | <i>Hedeoma pulcherrima</i>                                                        | <i>Hedeoma pulcherrima</i>                             |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>         |                 |          |         |          |                   | Non-weedy  |           |                                                             |                                                                                        |
| HYHO        | <i>Hymenoxys hoopesii</i>                                                         | <i>Helenium hoopesii</i>                               |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| HEQU2       | <i>Helianthella quinquenervis</i>                                                 | <i>Helianthella quinquenervis</i>                      |                 |          |         |          |                   | Non-weedy  |           |                                                             |                                                                                        |
| HEAN3       | <i>Helianthus annuus</i>                                                          | <i>Helianthus annuus</i>                               | Endomycorrhizal |          |         | Yes      | Yes               | Economic   | Y         | Veblen (1986); Shankman & Daly (1988); Klinka et al. (1989) | Dominant in climax areas in Colorado front range; same; Dominant in climax communities |
| HEAR8       | <i>Helianthus arizonensis</i>                                                     | <i>Helianthus arizonensis</i>                          |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| HEPE        | <i>Helianthus petiolaris</i>                                                      | <i>Helianthus petiolaris</i>                           |                 |          |         |          | Yes               | Economic   |           |                                                             |                                                                                        |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboides</i>                           | <i>Helianthus rigidus</i> subsp. <i>subrhomboides</i>  |                 |          |         | Yes      | Yes-<br>Qualified | Colonizing |           |                                                             |                                                                                        |
| HEMA80      | <i>Heracleum maximum</i>                                                          | <i>Heracleum lanatum</i>                               |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| HEPA11      | <i>Heuchera parvifolia</i>                                                        | <i>Heuchera parvifolia</i>                             |                 |          |         |          |                   | Non-weedy  |           |                                                             |                                                                                        |
| HICA4       | <i>Hieracium cameum</i>                                                           | <i>Hieracium cameum</i>                                |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| HIFE        | <i>Hieracium fendleri</i>                                                         | <i>Hieracium fendleri</i>                              |                 |          |         |          |                   | Non-weedy  |           |                                                             |                                                                                        |
| HIOD        | <i>Hierochloa odorata</i>                                                         | <i>Hierochloa odorata</i>                              |                 |          |         |          |                   |            |           |                                                             |                                                                                        |
| PLJA        | <i>Pleuraphis jamesii</i>                                                         | <i>Hilaria jamesii</i>                                 |                 |          |         |          |                   | Non-weedy  |           |                                                             |                                                                                        |
| HODU        | <i>Holodiscus dumosus</i>                                                         | <i>Holodiscus dumosus</i>                              | Endomycorrhizal |          |         |          | Yes               | Non-weedy  |           |                                                             |                                                                                        |
| HOBR2       | <i>Hordeum brachyantherum</i>                                                     | <i>Hordeum brachyantherum</i>                          |                 |          |         |          |                   | Non-weedy  |           |                                                             |                                                                                        |
| HOJU        | <i>Hordeum jubatum</i>                                                            | <i>Hordeum jubatum</i>                                 |                 | No       | No      | Yes      | Yes               | Economic   |           |                                                             |                                                                                        |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>                                     | <i>Humulus americanus</i>                              |                 |          |         |          |                   |            |           |                                                             |                                                                                        |

## ROOTS CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                                 | Mycorrhiza | Nod Form | Nit Fix | Hayfever | Edible | Weediness        | Oldfields | Oldfield References                             | Oldfield Comments                                                                              |
|-------------|-------------------------------------------------------|------------------------------------------------------------|------------|----------|---------|----------|--------|------------------|-----------|-------------------------------------------------|------------------------------------------------------------------------------------------------|
| HYFE        | <i>Hydrophyllum fendleri</i>                          | <i>Hydrophyllum fendleri</i>                               |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| HYFI        | <i>Hymenopappus filifolius</i>                        | <i>Hymenopappus filifolius</i>                             |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i> | <i>Hymenopappus flavescens</i> var. <i>cano-tomentosus</i> |            |          |         |          |        |                  |           |                                                 |                                                                                                |
| HYNE        | <i>Hymenopappus newberryi</i>                         | <i>Hymenopappus newberryi</i>                              |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                       | <i>Hymenopappus tenuifolius</i>                            |            |          |         |          |        |                  | Y         | Veblen(1986); Shankman&Daly (1988);Tande (1979) | Dominant in climax areas in Colorado front range; same; Dominant in climax in subalpine region |
| TECA2       | <i>Tetradymia canescens</i>                           | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>               |            |          |         |          |        | Non-weedy        | Y         | Eddleman(1984)                                  | Dominant in old field community                                                                |
| TEACA       | <i>Tetraneuris acaulis</i> var. <i>arizonica</i>      | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>             |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| TEACN       | <i>Tetraneuris acaulis</i> var. <i>nana</i>           | <i>Hymenoxys argentea</i>                                  |            |          |         |          |        |                  |           |                                                 |                                                                                                |
| TEBR        | <i>Tetraneuris brandegei</i>                          | <i>Hymenoxys brandegei</i>                                 |            |          |         |          |        |                  |           |                                                 |                                                                                                |
| TEIV        | <i>Tetraneuris ivesiana</i>                           | <i>Hymenoxys ivesiana</i>                                  |            |          |         |          |        |                  |           |                                                 |                                                                                                |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>  | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>       |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| HYNI        | <i>Hyoscyamus niger</i>                               | <i>Hyoscyamus niger</i>                                    |            |          |         |          | Poison | Colonizing       |           |                                                 |                                                                                                |
| HYFO4       | <i>Hypericum formosum</i>                             | <i>Hypericum formosum</i>                                  |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| IPCO3       | <i>Ipomoea coccinea</i>                               | <i>Ipomoea coccinea</i>                                    |            |          |         |          |        |                  | Y         | VanAuken&Bush (1985)                            | Secondary species in mature stands                                                             |
| IPHE        | <i>Ipomoea hederacea</i>                              | <i>Ipomoea hederacea</i>                                   |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>      | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>         |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>     | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>            |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| IPLA2       | <i>Ipomopsis laxiflora</i>                            | <i>Ipomopsis laxiflora</i>                                 |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| IPLO2       | <i>Ipomopsis longiflora</i>                           | <i>Ipomopsis longiflora</i>                                |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| IPMU3       | <i>Ipomopsis multiflora</i>                           | <i>Ipomopsis multiflora</i>                                |            |          |         |          |        |                  |           |                                                 |                                                                                                |
| IPPU4       | <i>Ipomopsis pumila</i>                               | <i>Ipomopsis pumila</i>                                    |            |          |         |          |        | Non-weedy        |           |                                                 |                                                                                                |
| IRMI        | <i>Iris missouriensis</i>                             | <i>Iris missouriensis</i>                                  |            |          |         |          |        | Economic         |           |                                                 |                                                                                                |
| IVAX        | <i>Iva axillaris</i>                                  | <i>Iva axillaris</i>                                       |            |          |         | Yes      |        | Noxious-CO/UT/WY |           |                                                 |                                                                                                |
| IVXA        | <i>Iva xanthifolia</i>                                | <i>Iva xanthifolia</i>                                     |            |          |         | Yes      |        | Economic         | Y         | Tilman (1986)                                   | Dominant in late succession                                                                    |

## ROOTS CON'T

| USDA Symbol | USDA NRCS PLANTS                                        | Martin and Hutchins (1980)                        | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible            | Weediness | Oldfields | Oldfield References                                                        | Oldfield Comments                                                                 |
|-------------|---------------------------------------------------------|---------------------------------------------------|-----------------|----------|---------|----------|-------------------|-----------|-----------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| JAAM        | <i>Jamesia americana</i>                                | <i>Jamesia americana</i>                          |                 |          |         |          |                   | Non-weedy |           |                                                                            |                                                                                   |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>             | <i>Juncus balticus</i> var. <i>montanus</i>       | Nonmycorrhizal  |          | Maybe   | No       | Yes               | Non-weedy |           |                                                                            |                                                                                   |
| JUBU        | <i>Juncus bufonius</i>                                  | <i>Juncus bufonius</i>                            | Endomycorrhizal |          | Maybe   | No       |                   | Non-weedy |           |                                                                            |                                                                                   |
| JUCO2       | <i>Juncus confusus</i>                                  | <i>Juncus confusus</i>                            | Nonmycorrhizal  |          |         | No       |                   | Non-weedy |           |                                                                            |                                                                                   |
| JUDR        | <i>Juncus drummondii</i>                                | <i>Juncus drummondii</i>                          | Nonmycorrhizal  |          |         | No       |                   | Non-weedy |           |                                                                            |                                                                                   |
| JUIN2       | <i>Juncus interior</i>                                  | <i>Juncus interior</i>                            | Nonmycorrhizal  |          |         | No       |                   | Non-weedy |           |                                                                            |                                                                                   |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>       | <i>Juncus longistylis</i> var. <i>longistylis</i> | Nonmycorrhizal  |          |         | No       |                   | Non-weedy |           |                                                                            |                                                                                   |
| JUMA4       | <i>Juncus marginatus</i>                                | <i>Juncus marginatus</i>                          | Nonmycorrhizal  |          |         | No       |                   | Non-weedy |           |                                                                            |                                                                                   |
| JUME4       | <i>Juncus mexicanus</i>                                 | <i>Juncus mexicanus</i>                           |                 |          |         |          |                   |           |           |                                                                            |                                                                                   |
| JUTE        | <i>Juncus tenuis</i>                                    | <i>Juncus tenuis</i>                              | Nonmycorrhizal  |          |         | No       |                   | Non-weedy |           |                                                                            |                                                                                   |
| JUTO        | <i>Juncus torreyi</i>                                   | <i>Juncus torreyi</i>                             | Nonmycorrhizal  |          |         | No       |                   | Non-weedy |           |                                                                            |                                                                                   |
| JUXI        | <i>Juncus xiphioides</i>                                | <i>Juncus xiphioides</i>                          |                 |          |         |          |                   |           |           |                                                                            |                                                                                   |
| JUCO6       | <i>Juniperus communis</i>                               | <i>Juniperus communis</i>                         | Endo/Ecto       | Possible | Maybe   | Yes      | Yes-<br>Qualified | Non-weedy |           |                                                                            |                                                                                   |
| JUDE2       | <i>Juniperus deppeana</i>                               | <i>Juniperus deppeana</i>                         |                 |          |         |          |                   |           |           |                                                                            |                                                                                   |
| JUMO        | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                       | Endomycorrhizal |          |         | Yes      | Yes-<br>Qualified | Non-weedy |           |                                                                            |                                                                                   |
| JUSC2       | <i>Juniperus scopulorum</i>                             | <i>Juniperus scopulorum</i>                       | Endomycorrhizal | Possible | Maybe   | Yes      | Yes               | Non-weedy |           |                                                                            |                                                                                   |
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>                  |                 |          |         |          |                   | Non-weedy |           |                                                                            |                                                                                   |
| KOSC        | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                            | Nonmycorrhizal  |          |         | Yes      |                   | Economic  |           |                                                                            |                                                                                   |
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                          | Endomycorrhizal | No       | No      | Yes      | Yes-<br>Qualified | Non-weedy |           |                                                                            |                                                                                   |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                             |                 |          |         |          |                   | Non-weedy |           |                                                                            |                                                                                   |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                         |                 |          |         |          |                   |           |           |                                                                            |                                                                                   |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                         |                 |          |         |          |                   | Non-weedy |           |                                                                            |                                                                                   |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                       |                 |          |         |          |                   | Non-weedy |           |                                                                            |                                                                                   |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                        |                 |          |         |          |                   | Non-weedy |           |                                                                            |                                                                                   |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                          |                 |          |         |          |                   |           |           |                                                                            |                                                                                   |
| LASE        | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                           |                 |          |         |          |                   | Economic  |           |                                                                            |                                                                                   |
| LABI        | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                            |                 |          |         |          |                   |           | Y         | Carson & Barrett (1988); Goldberg & Gross (1988); Armesto & Pickett (1985) | Dominant in older community; Dominant in mesic sites; Dominant in late succession |

## ROOTS CON'T

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|-------------|------------------------------------------------------|----------------------------------------------|-----------------|----------|---------|----------|--------|------------|-----------|---------------------|-------------------|
| LASQ        | <i>Lappula squarrosa</i>                             | <i>Lappula echinata</i>                      |                 |          |         |          |        | Economic   |           |                     |                   |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i> | <i>Lappula redowskii</i>                     |                 |          |         |          |        | Colonizing |           |                     |                   |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>     | <i>Lappula texana</i>                        |                 |          |         |          |        |            |           |                     |                   |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>   | <i>Lathyrus arizonicus</i>                   |                 | Possible | Maybe   |          |        | Non-weedy  |           |                     |                   |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>   | <i>Lathyrus leucanthus</i>                   |                 | Possible | Maybe   |          |        | Non-weedy  |           |                     |                   |
| LEOR        | <i>Leersia oryzoides</i>                             | <i>Leersia oryzoides</i>                     |                 |          |         |          |        | Non-weedy  |           |                     |                   |
| LEMI3       | <i>Lemna minor</i>                                   | <i>Lemna minor</i>                           | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                     |                   |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>        | <i>Lepidium medium</i> var. <i>pubescens</i> |                 |          |         |          |        |            |           |                     |                   |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>     | <i>Lepidium medium</i> var. <i>medium</i>    |                 |          |         |          |        |            |           |                     |                   |
| LEFE        | <i>Lesquerella fendleri</i>                          | <i>Lesquerella fendleri</i>                  |                 |          |         |          |        |            |           |                     |                   |
| LEIN3       | <i>Lesquerella intermedia</i>                        | <i>Lesquerella intermedia</i>                | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                     |                   |
| LERE3       | <i>Lesquerella rectipes</i>                          | <i>Lesquerella rectipes</i>                  | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                     |                   |
| CHER2       | <i>Chaetopappa ericoides</i>                         | <i>Leucelene ericoides</i>                   |                 |          |         |          | Yes    | Non-weedy  |           |                     |                   |
| LIPU        | <i>Liatris punctata</i>                              | <i>Liatris punctata</i>                      |                 |          |         |          | Yes    | Non-weedy  |           |                     |                   |
| LIPO        | <i>Ligusticum porteri</i>                            | <i>Ligusticum porteri</i>                    |                 |          |         |          | Yes    | Non-weedy  |           |                     |                   |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i>     | <i>Lilium umbellatum</i>                     |                 |          |         |          |        |            |           |                     |                   |
| LIAQ        | <i>Limosella aquatica</i>                            | <i>Limosella aquatica</i>                    | Nonmycorrhizal  |          |         |          |        | Non-weedy  |           |                     |                   |
| LIVU2       | <i>Linaria vulgaris</i>                              | <i>Linaria vulgaris</i>                      | Endomycorrhizal |          |         |          |        | Noxious-MT |           |                     |                   |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>           | <i>Linum aristatum</i> var. <i>australe</i>  |                 |          |         |          |        |            |           |                     |                   |
| LILE3       | <i>Linum lewisii</i>                                 | <i>Linum lewisii</i>                         |                 |          |         |          | Yes    | Non-weedy  |           |                     |                   |
| LINE        | <i>Linum neomexicanum</i>                            | <i>Linum neomexicana</i>                     |                 |          |         |          |        |            |           |                     |                   |
| LIPU4       | <i>Linum puberulum</i>                               | <i>Linum puberulum</i>                       |                 |          |         |          |        | Non-weedy  |           |                     |                   |
| LIRI        | <i>Linum rigidum</i>                                 | <i>Linum rigidum</i> "complex"               |                 |          |         |          |        |            |           |                     |                   |
| LICO7       | <i>Lithospermum cobrense</i>                         | <i>Lithospermum cobrense</i>                 |                 |          |         |          |        |            |           |                     |                   |
| LIIN2       | <i>Lithospermum incisum</i>                          | <i>Lithospermum incisum</i>                  |                 |          |         |          |        | Non-weedy  |           |                     |                   |
| LIMU3       | <i>Lithospermum multiflorum</i>                      | <i>Lithospermum multiflorum</i>              |                 |          |         |          | Yes    | Non-weedy  |           |                     |                   |

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|-------------|--------------------------------------------------------------------------|---------------------------------------------------|-----------------|----------|---------|----------|--------|------------|-----------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>                           | <i>Lobelia cardinalis</i> subsp. <i>graminae</i>  |                 |          |         |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LOPE        | <i>Lolium perenne</i>                                                    | <i>Lolium perenne</i>                             | Endomycorrhizal |          |         | Yes      |        | Colonizing |           |                                                                                              |                                                                                                                                                    |
| LOIN5       | <i>Lonicera involucrata</i>                                              | <i>Lonicera involucrata</i>                       |                 |          |         |          | Yes    | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LOWR        | <i>Lotus wrightii</i>                                                    | <i>Lotus wrightii</i>                             |                 | Possible | Maybe   |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LUAL5       | <i>Lupinus X alpestris</i>                                               | <i>Lupinus alpestris</i>                          |                 |          |         |          |        |            |           |                                                                                              |                                                                                                                                                    |
| LUAM        | <i>Lupinus ammophilus</i>                                                | <i>Lupinus ammophilus</i>                         |                 | Possible | Maybe   |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LUAR3       | <i>Lupinus argenteus</i>                                                 | <i>Lupinus argenteus</i>                          |                 | Reported | Yes     |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LUBR2       | <i>Lupinus brevicaulis</i>                                               | <i>Lupinus brevicaulis</i>                        |                 | Possible | Maybe   |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                          | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> |                 | Possible | Maybe   |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LUKI        | <i>Lupinus kingii</i>                                                    | <i>Lupinus kingii</i>                             |                 | Reported | Maybe   |          | Poison | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LUPU        | <i>Lupinus pusillus</i>                                                  | <i>Lupinus pusillus</i>                           |                 | Reported | Maybe   | No       |        | Non-weedy  | Y         | Inouye & Tilman (1988) Goldberg & Gross (1988); Miller & Werner (1987); Leps & Stursa (1988) | Dominant in older community; Dominant in mesic sites; Not a prime competitor on 1st year old field; Dominant in mid-succession [in Czechoslovakia] |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>                         | <i>Lupinus rubricaulis</i>                        |                 |          |         |          |        |            |           |                                                                                              |                                                                                                                                                    |
| LUPA4       | <i>Luzula parviflora</i>                                                 | <i>Luzula parviflora</i>                          | Nonmycorrhizal  |          |         | No       |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LYPA        | <i>Lycium pallidum</i>                                                   | <i>Lycium pallidum</i>                            |                 |          |         |          | Yes    | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LYAM        | <i>Lycopus americanus</i>                                                | <i>Lycopus americanus</i>                         |                 |          |         |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| LYPH        | <i>Lycurus phleoides</i>                                                 | <i>Lycurus phleoides</i>                          |                 |          |         |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| PSAS2       | <i>Psilactis asteroides</i>                                              | <i>Machaeranthera amplifolia</i>                  |                 |          |         |          |        |            |           |                                                                                              |                                                                                                                                                    |
| MABI        | <i>Machaeranthera bigelovii</i>                                          | <i>Machaeranthera bigelovii</i>                   |                 |          |         |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| MACA2       | <i>Machaeranthera canescens</i>                                          | <i>Machaeranthera canescens</i>                   |                 |          |         |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                    |                 |          |         |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>               |                 |          |         |          |        | Non-weedy  |           |                                                                                              |                                                                                                                                                    |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                   |                 |          |         |          |        |            |           |                                                                                              |                                                                                                                                                    |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                       |                 |          |         |          |        |            |           |                                                                                              |                                                                                                                                                    |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                             |                 |          |         |          |        |            |           |                                                                                              |                                                                                                                                                    |

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|-------------|----------------------------------------------------|----------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-------------------|
| MANE        | <i>Malva neglecta</i>                              | <i>Malva negelecta</i>                             |                 |          |         |          | Yes               | Economic   |           |                     |                   |
| MAPA5       | <i>Malva parviflora</i>                            | <i>Malva parviflora</i>                            |                 |          |         |          |                   | Colonizing |           |                     |                   |
| MAWR2       | <i>Mammillaria wrightii</i>                        | <i>Mammillaria wrightii</i>                        |                 |          |         |          |                   |            |           |                     |                   |
| MAVU        | <i>Marrubium vulgare</i>                           | <i>Marrubium vulgare</i>                           |                 |          |         |          |                   | Colonizing |           |                     |                   |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                 | <i>Maurandya antirrhiniflora</i>                   |                 |          |         |          |                   |            |           |                     |                   |
| MELU        | <i>Medicago lupulina</i>                           | <i>Medicago lupulina</i>                           | Endomycorrhizal | Reported | Yes     |          | Yes               | Economic   |           |                     |                   |
| MESA        | <i>Medicago sativa</i>                             | <i>Medicago sativa</i>                             | Endomycorrhizal | Reported | Yes     | Yes      | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| MELE2       | <i>Melampodium leucanthum</i>                      | <i>Melampodium leucanthum</i>                      |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MEPO        | <i>Melica porteri</i>                              | <i>Melica porteri</i>                              |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MEOF        | <i>Melilotus officinalis</i>                       | <i>Melilotus albus</i>                             | Endomycorrhizal | Reported | Yes     |          |                   | Colonizing |           |                     |                   |
| MEIN2       | <i>Melilotus indicus</i>                           | <i>Melilotus indicus</i>                           |                 | Reported | Yes     |          |                   | Colonizing |           |                     |                   |
| MEOF        | <i>Melilotus officinalis</i>                       | <i>Melilotus officinalis</i>                       |                 | Reported | Yes     |          |                   | Colonizing |           |                     |                   |
| MESC        | <i>Menodora scabra</i>                             | <i>Menodora scabra</i>                             | Nonmycorrhizal  |          |         |          |                   | Non-weedy  |           |                     |                   |
| MEAR4       | <i>Mentha arvensis</i>                             | <i>Mentha arvensis</i>                             | Endomycorrhizal |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| MEAL6       | <i>Mentzelia albicaulis</i>                        | <i>Mentzelia albicaulis</i>                        |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| MELA        | <i>Mentzelia laciniata</i>                         | <i>Mentzelia laciniata</i>                         |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>          | <i>Mentzelia nuda</i> var. <i>stricta</i>          |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>         | <i>Mentzelia pumila</i> var. <i>integra</i>        |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>    | <i>Mentzelia pumila</i> var. <i>multiflora</i>     |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i> | <i>Mentzelia pumila</i> var. <i>pumila</i>         |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MERU        | <i>Mentzelia rusbyi</i>                            | <i>Mentzelia rusbyi</i>                            |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MEBR        | <i>Mertensia brevistyla</i>                        | <i>Mertensia brevistyla</i>                        |                 | Reported | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| MEFR2       | <i>Mertensia franciscana</i>                       | <i>Mertensia franciscana</i>                       |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>navalis</i>    | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| URLI2       | <i>Uropappus linearifolius</i>                     | <i>Microseris linearifolia</i>                     |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
|             |                                                    | <i>Microseris minimus</i>                          |                 |          |         |          |                   |            |           |                     |                   |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>         | <i>Microsteris gracilis</i>                        |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| MIFL2       | <i>Mimulus floribundus</i>                         | <i>Mimulus floribundus</i>                         |                 |          |         |          |                   | Non-weedy  |           |                     |                   |



## ROOTS CON'T

| USDA Symbol | USDA NRCS PLANTS                                                       | Martin and Hutchins (1980)                     | Mycorrhiza     | Nod Form | Nit Fix | Hayfever | Edible            | Weediness | Oldfields | Oldfield References | Oldfield Comments |
|-------------|------------------------------------------------------------------------|------------------------------------------------|----------------|----------|---------|----------|-------------------|-----------|-----------|---------------------|-------------------|
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                           | <i>Mimulus glabratus</i> var. <i>fremontii</i> |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MIGU        | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                        |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                      |                |          |         |          |                   |           |           |                     |                   |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                    | Nonmycorrhizal |          |         |          |                   | Non-weedy |           |                     |                   |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                  |                |          |         |          |                   |           |           |                     |                   |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                    |                |          |         |          | Yes               | Non-weedy |           |                     |                   |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                    |                |          |         |          |                   |           |           |                     |                   |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                       |                |          |         |          | Yes-<br>Qualified | Non-weedy |           |                     |                   |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                    |                |          |         |          |                   |           |           |                     |                   |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                    |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                 |                |          |         |          |                   |           |           |                     |                   |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                   |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                    |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                 |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                    |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                |                |          |         |          |                   |           |           |                     |                   |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                   |                | No       |         |          |                   | Non-weedy |           |                     |                   |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                     |                |          |         |          |                   |           |           |                     |                   |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia torreyi</i>                    |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolfii</i>                     |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                   |                |          |         |          |                   | Non-weedy |           |                     |                   |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                        |                |          |         |          |                   | Non-weedy |           |                     |                   |
|             |                                                                        | <i>Myosurus minimus</i>                        |                |          |         |          |                   | Non-weedy |           |                     |                   |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                         |                |          |         |          |                   | Non-weedy |           |                     |                   |
| NAHI        | <i>Nama hispidum</i>                                                   | <i>Nama hispidum</i> var. <i>hispidum</i>      |                |          |         |          |                   | Non-weedy |           |                     |                   |

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|-------------|-----------------------------------------------------|----------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-------------------|
| NECA2       | <i>Nepeta cataria</i>                               | <i>Nepeta cataria</i>                              |                 |          |         |          | Yes-<br>Qualified | Colonizing |           |                     |                   |
| NIAT        | <i>Nicotiana attenuata</i>                          | <i>Nicotiana attenuata</i>                         |                 |          |         |          | Poison            | Non-weedy  |           |                     |                   |
| NOMI        | <i>Nolina microcarpa</i>                            | <i>Nolina microcarpa</i>                           |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| NOTHO       | <i>Notholaena</i>                                   | <i>Notholaena</i> spp.                             |                 |          |         |          |                   |            |           |                     |                   |
| NOST        | <i>Notholaena standleyi</i>                         | <i>Notholaena standleyi</i>                        |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| OEAL        | <i>Oenothera albicaulis</i>                         | <i>Oenothera albicaulis</i>                        |                 |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| OECE2       | <i>Oenothera cespitosa</i>                          | <i>Oenothera caespitosa</i>                        |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| OECEM3      | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i> | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>   |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>    | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| OEEO2       | <i>Oenothera coronopifolia</i>                      | <i>Oenothera coronopifolia</i>                     |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| OEFL        | <i>Oenothera flava</i>                              | <i>Oenothera flava</i>                             |                 |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>          | <i>Oenothera hookeri</i>                           |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| OELA        | <i>Oenothera laciniata</i>                          | <i>Oenothera laciniata</i> var. <i>laciniata</i>   |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>        | <i>Oenothera pallida</i> subsp. <i>pallida</i>     |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| OEPR        | <i>Oenothera primiveris</i>                         | <i>Oenothera primiveris</i>                        |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| OPCL        | <i>Opuntia clavata</i>                              | <i>Opuntia clavata</i>                             |                 |          |         |          |                   |            |           |                     |                   |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>        | <i>Opuntia erinacea</i> var. <i>erinacea</i>       |                 |          |         |          | Yes               | Economic   |           |                     |                   |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>       | <i>Opuntia erinacea</i> var. <i>utahensis</i>      |                 |          |         |          | Yes               | Economic   |           |                     |                   |
| OPIM        | <i>Opuntia imbricata</i>                            | <i>Opuntia imbricata</i>                           |                 |          |         |          | Yes               | Economic   |           |                     |                   |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>    | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   |                 |          |         |          |                   |            |           |                     |                   |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>  | <i>Opuntia phaeacantha</i> var. <i>discata</i>     |                 |          |         |          | Yes               | Economic   |           |                     |                   |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>  | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> |                 |          |         |          | Yes               | Economic   |           |                     |                   |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>  | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | Endomycorrhizal | Possible | Maybe   |          | Yes               | Economic   |           |                     |                   |
| ORFA        | <i>Orobancha fasciculata</i>                        | <i>Orobancha fasciculata</i> var. <i>lutea</i>     |                 |          |         |          | Yes               | Non-weedy  |           |                     |                   |

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|-------------|-------------------------------------------------------------|------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-------------------|
| ORLU        | <i>Orobanche ludoviciana</i>                                | <i>Orobanche ludoviciana</i>                   |                 |          |         | No       | Yes               | Economic   |           |                     |                   |
| ORLUM       | <i>Orobanche ludoviciana</i> ssp. <i>multiflora</i>         | <i>Orobanche multiflora</i>                    |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ORLU2       | <i>Orthocarpus luteus</i>                                   | <i>Orthocarpus luteus</i>                      |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                            | <i>Orthocarpus purpureo-albus</i>              |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ORAS        | <i>Oryzopsis asperifolia</i>                                | <i>Oryzopsis asperifolia</i>                   |                 |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| ACHY        | <i>Achnatherum hymenoides</i>                               | <i>Oryzopsis hymenoides</i>                    |                 |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| PIMI7       | <i>Piptatherum micranthum</i>                               | <i>Oryzopsis micrantha</i>                     |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| OSDE        | <i>Osmorhiza depauperata</i>                                | <i>Osmorhiza obtusa</i>                        |                 |          |         |          |                   |            |           |                     |                   |
| OXAL2       | <i>Oxalis alpina</i>                                        | <i>Oxalis metcalfei</i>                        |                 |          |         |          |                   |            |           |                     |                   |
| OXVI        | <i>Oxalis violacea</i>                                      | <i>Oxalis violacea</i>                         | Endomycorrhizal |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                      | Nonmycorrhizal  |          |         |          |                   | Non-weedy  |           |                     |                   |
| MILI3       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i> | Nonmycorrhizal  |          |         |          |                   | Non-weedy  |           |                     |                   |
| OXFE        | <i>Oxypolis fendleri</i>                                    | <i>Oxypolis fendleri</i>                       |                 |          |         |          |                   |            |           |                     |                   |
| OXLA3       | <i>Oxytropis lambertii</i>                                  | <i>Oxytropis lambertii</i>                     |                 | Reported | Maybe   | No       | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                   |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                        |                 |          |         |          |                   |            |           |                     |                   |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i> |                 | No       | No      |          | Yes-<br>Qualified | Economic   |           |                     |                   |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                          |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                         |                 |          |         |          |                   |            |           |                     |                   |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                       | Endomycorrhizal |          |         |          |                   | Non-weedy  |           |                     |                   |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                         |                 |          |         |          | Yes-<br>Qualified | Colonizing |           |                     |                   |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                   |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                    |                 |          |         |          |                   |            |           |                     |                   |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                        |                 |          |         |          |                   | Non-weedy  |           |                     |                   |

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|-------------|-------------------------------------------------------------|----------------------------------------------------------|------------|----------|---------|----------|-------------------|-----------|-----------|--------------------------|---------------------------------------------------|
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                                |            |          |         |          |                   |           |           |                          |                                                   |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                            |            |          |         |          |                   |           |           |                          |                                                   |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                               |            |          |         |          | Yes               | Non-weedy |           |                          |                                                   |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                                    |            |          |         |          | Yes-<br>Qualified |           |           |                          |                                                   |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                                 |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                         |            |          |         |          |                   |           |           |                          |                                                   |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                              |            |          |         |          |                   |           |           |                          |                                                   |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                                  |            |          |         |          |                   |           |           |                          |                                                   |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                                 |            |          |         |          |                   |           |           |                          |                                                   |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                            |            |          |         |          |                   |           |           |                          |                                                   |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>          |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                                 |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                                |            |          |         |          |                   |           |           |                          |                                                   |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                                 |            |          |         |          |                   | Non-weedy | Y         | Cholewa & Johnson (1983) | Dominant in Pseudotsugamenziesii climax community |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                                  |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>      | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| PEOL        | <i>Penstemon oliganthus</i>                                 | <i>Penstemon oliganthus</i>                              |            |          |         |          |                   |           |           |                          |                                                   |
| PERY        | <i>Penstemon rydbergii</i>                                  | <i>Penstemon rydbergii</i>                               |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| PESE11      | <i>Penstemon secundiflorus</i>                              | <i>Penstemon secundiflorus</i>                           |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| PEVI4       | <i>Penstemon virgatus</i>                                   | <i>Penstemon virgatus</i>                                |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| PEWH        | <i>Penstemon whippleanus</i>                                | <i>Penstemon whippleanus</i>                             |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| PECA10      | <i>Pericome caudata</i>                                     | <i>Pericome caudata</i>                                  |            |          |         |          |                   | Non-weedy |           |                          |                                                   |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                    | <i>Petalostemum candidum</i>                             |            |          |         |          |                   |           |           |                          |                                                   |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                  | <i>Petalostemum compactum</i>                            |            |          |         |          |                   |           |           |                          |                                                   |
| DAEX2       | <i>Dalea exigua</i>                                         | <i>Petalostemum exile</i>                                |            |          |         |          |                   |           |           |                          |                                                   |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-------------------|
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                | <i>Petalostemum purpureum</i>                             |                 |          |         |          |                   |            |           |                     |                   |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                  | <i>Petalostemum villosum</i>                              |                 |          |         |          |                   |            |           |                     |                   |
| PHCO        | <i>Phacelia coerulea</i>                                  | <i>Phacelia coerulea</i>                                  |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>           | <i>Phacelia corrugata</i>                                 |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PHHE2       | <i>Phacelia heterophylla</i>                              | <i>Phacelia heterophylla</i>                              |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PHEG        | <i>Phacelia egea</i>                                      | <i>Phacelia magellanica</i>                               |                 |          |         |          |                   |            |           |                     |                   |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            |                 |          |         |          |                   |            |           |                     |                   |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              |                 |          |         |          |                   |            |           |                     |                   |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | Endomycorrhizal |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     | Endomycorrhizal |          |         | Maybe    |                   | Non-weedy  |           |                     |                   |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    | Endomycorrhizal | No       | No      | Yes      |                   | Colonizing |           |                     |                   |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             |                 |          |         |          | Yes-<br>Qualified | Economic   |           |                     |                   |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                |                 |          |         |          |                   |            |           |                     |                   |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 |                 |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | Ecto/Ectendo    |          |         | No       |                   | Non-weedy  |           |                     |                   |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | Ectomycorrhizal |          | Maybe   | No       |                   | Non-weedy  |           |                     |                   |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | Endomycorrhizal | Possible | Maybe   | Maybe    | Yes               | Non-weedy  |           |                     |                   |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     | Ectomycorrhizal |          | Maybe   | Maybe    | Yes               | Non-weedy  |           |                     |                   |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | Ectomycorrhizal | No       | No      | Maybe    | Yes               | Non-weedy  |           |                     |                   |
| PLAR2       | <i>Plantago argyrea</i>                                   | <i>Plantago argyrea</i>                                   |                 |          |         |          |                   |            |           |                     |                   |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-------------------|
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     |                  |          |         | Yes      | Yes               | Economic   |           |                     |                   |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   |                  |          |         |          |                   |            |           |                     |                   |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          | Endomycorrhizal  |          |         | Yes      |                   | Economic   |           |                     |                   |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      |                  |          |         |          |                   | Non-weedy  |           |                     |                   |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      | Endomycorrhizal  | No       | No      | Yes      |                   | Colonizing |           |                     |                   |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    |                  | No       | No      |          | Yes               | Non-weedy  |           |                     |                   |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       |                  |          |         |          |                   |            |           |                     |                   |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    |                  |          |         |          |                   |            |           |                     |                   |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     |                  |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      |                  | No       | No      |          |                   | Non-weedy  |           |                     |                   |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    |                  |          |         |          |                   | Non-weedy  |           |                     |                   |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | Endomycorrhizal  | Reported |         | Yes      |                   | Colonizing |           |                     |                   |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             |                  |          |         |          |                   |            |           |                     |                   |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> |                  |          |         |          |                   | Non-weedy  |           |                     |                   |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | Nonmycorrhizal   |          |         |          |                   | Non-weedy  |           |                     |                   |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                | Nonmycorrhizal   |          |         |          | Yes-<br>Qualified | Economic   |           |                     |                   |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             | Endomycorrhizal  |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              | Nonmycorrhizal   |          |         |          |                   | Economic   |           |                     |                   |
| PODO4       | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                | Nonmycorrhizal   |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>          | <i>Polygonum montanum</i>                                 |                  |          |         |          |                   |            |           |                     |                   |
| POPE3       | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                               | Nonmycorrhizal   |          |         |          |                   | Economic   |           |                     |                   |
| PORA3       | <i>Polygonum ramosissimum</i>                             | <i>Polygonum ramosissimum</i>                             | Nonmycorrhizal   |          |         |          |                   | Colonizing |           |                     |                   |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i>         | <i>Polygonum sawatchense</i>                              | Nonmycorrhizal   |          |         |          |                   | Non-weedy  |           |                     |                   |
| POMO5       | <i>Polypogon monspeliensis</i>                            | <i>Polypogon monspeliensis</i>                            | Endomycorrhizal  |          |         |          |                   | Colonizing |           |                     |                   |
| POAN3       | <i>Populus angustifolia</i>                               | <i>Populus angustifolia</i>                               | Ecotomycorrhizal | Possible | Maybe   | Yes      | Yes               | Non-weedy  |           |                     |                   |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>            | <i>Populus fremontii</i> var. <i>wislizenii</i>           | Ectomycorrhizal  |          | Maybe   |          |                   | Non-weedy  |           |                     |                   |

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|-------------|---------------------------------------------------|----------------------------------------------------|-----------------|----------|---------|----------|---------------|------------|-----------|---------------------------------|------------------------------|
| POTR5       | <i>Populus tremuloides</i>                        | <i>Populus tremuloides</i> var. <i>aurea</i>       | Endo/Ecto       |          | Maybe   | Yes      | Yes-Qualified | Non-weedy  |           |                                 |                              |
| POOL        | <i>Portulaca oleracea</i>                         | <i>Portulaca oleracea</i>                          | Nonmycorrhizal  |          |         |          | Yes           | Economic   |           |                                 |                              |
| ARAN7       | <i>Argentina anserina</i>                         | <i>Potentilla anserina</i>                         | Endomycorrhizal |          |         |          | Yes           | Non-weedy  |           |                                 |                              |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>  | <i>Potentilla arguta</i> subsp. <i>convallaria</i> |                 |          |         |          |               | Non-weedy  |           |                                 |                              |
| POCO13      | <i>Potentilla concinna</i>                        | <i>Potentilla concinna</i>                         |                 |          |         |          |               | Non-weedy  |           |                                 |                              |
| POCR4       | <i>Potentilla crinita</i>                         | <i>Potentilla crinita</i>                          |                 |          |         |          |               | Non-weedy  |           |                                 |                              |
| PEFL15      | <i>Pentaphylloides floribunda</i>                 | <i>Potentilla fruticosa</i>                        |                 |          |         |          |               | Non-weedy  |           |                                 |                              |
| POHI6       | <i>Potentilla hippiana</i>                        | <i>Potentilla hippiana</i>                         |                 |          |         |          |               | Non-weedy  | Y         | Reichardt(1982); Eddleman(1984) | Dominant in climax community |
| PONO3       | <i>Potentilla norvegica</i>                       | <i>Potentilla norvegica</i>                        |                 |          |         | No       |               | Colonizing |           |                                 |                              |
| POPE8       | <i>Potentilla pennsylvanica</i>                   | <i>Potentilla pennsylvanica</i>                    |                 |          |         |          |               | Non-weedy  |           |                                 |                              |
| POPU9       | <i>Potentilla pulcherrima</i>                     | <i>Potentilla pulcherrima</i>                      |                 |          |         |          |               |            |           |                                 |                              |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>   | <i>Potentilla thurberi</i> var. <i>thurberi</i>    |                 |          |         |          |               |            |           |                                 |                              |
| PRRU        | <i>Primula rusbyi</i>                             | <i>Primula rusbyi</i>                              |                 |          |         |          |               |            |           |                                 |                              |
| PRVU        | <i>Prunella vulgaris</i>                          | <i>Prunella vulgaris</i>                           | Nonmycorrhizal  |          |         | No       | Yes           | Non-weedy  |           |                                 |                              |
| PRAM        | <i>Prunus americana</i>                           | <i>Prunus americana</i>                            |                 |          |         | No       | Yes           | Non-weedy  |           |                                 |                              |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>   | <i>Prunus emarginata</i> var. <i>emarginata</i>    |                 |          |         | No       | Yes-Qualified | Non-weedy  |           |                                 |                              |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>  | <i>Prunus virginiana</i> var. <i>melanocarpa</i>   |                 |          |         | No       | Yes           | Non-weedy  |           |                                 |                              |
| PSMO        | <i>Pseudocymopterus montanus</i>                  | <i>Pseudocymopterus montanus</i>                   |                 |          |         |          |               | Non-weedy  |           |                                 |                              |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>   | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>    | Ectomycorrhizal |          |         |          |               | Non-weedy  |           |                                 |                              |
| PSTA        | <i>Psilotrophe tagetina</i>                       | <i>Psilotrophe tagetina</i>                        |                 |          |         |          |               | Non-weedy  |           |                                 |                              |
| PEHYH       | <i>Pedimelum hypogaeum</i> var. <i>hypogaeum</i>  | <i>Psoralea hypogaea</i>                           |                 | Possible | Maybe   |          | Yes           | Non-weedy  |           |                                 |                              |
| PSLA3       | <i>Psoralea lanceolata</i>                        | <i>Psoralea lanceolata</i>                         |                 | Reported | Maybe   |          |               | Non-weedy  |           |                                 |                              |
| PSTE5       | <i>Psoralea tenuiflora</i>                        | <i>Psoralea tenuiflora</i>                         |                 | Reported | Maybe   |          | Yes-Qualified | Non-weedy  |           |                                 |                              |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>  |                 |          |         |          |               |            |           |                                 |                              |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>  | <i>Pteridium aquilinum</i> var. <i>pubescens</i>   | Endomycorrhizal |          |         |          | Yes-Qualified | Economic   |           |                                 |                              |

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|-------------|-----------------------------------------------------------|-------------------------------------------------------|-----------------|----------|---------|----------|--------|------------|-----------|----------------------------|---------------------------------------------------------------------|
| PTAN2       | <i>Pterospora andromedea</i>                              | <i>Pterospora andromedea</i>                          |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>            | <i>Pulsatilla ludoviciana</i>                         |                 |          |         |          |        |            |           |                            |                                                                     |
| PUTR2       | <i>Purshia tridentata</i>                                 | <i>Purshia tridentata</i>                             | Endomycorrhizal | Reported | Yes     |          |        | Non-weedy  |           |                            |                                                                     |
| PYAS        | <i>Pyrola asarifolia</i>                                  | <i>Pyrola asarifolia</i>                              |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| PYCH        | <i>Pyrola chlorantha</i>                                  | <i>Pyrola chlorantha</i>                              |                 |          |         |          |        |            |           |                            |                                                                     |
| PYEL        | <i>Pyrola elliptica</i>                                   | <i>Pyrola elliptica</i>                               |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| PYMI        | <i>Pyrola minor</i>                                       | <i>Pyrola minor</i>                                   |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| PYPI2       | <i>Pyrola picta</i>                                       | <i>Pyrola picta</i>                                   |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       |                 |          |         |          |        |            |           |                            |                                                                     |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               | Endomycorrhizal | Possible | Maybe   | Yes      | Yes    | Non-weedy  |           |                            |                                                                     |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 |                 |          |         | Yes      | Yes    | Non-weedy  |           |                            |                                                                     |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                |                 |          |         | Yes      | Yes    | Non-weedy  |           |                            |                                                                     |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             |                 |          |         | Yes      | Yes    | Non-weedy  |           |                            |                                                                     |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               |                 |          |         | Yes      | Yes    | Non-weedy  |           |                            |                                                                     |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ranunculus secunda</i>                             |                 |          |         |          |        |            |           |                            |                                                                     |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   |                 |          |         |          | Yes    | Non-weedy  |           |                            |                                                                     |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> |                 |          |         | No       |        | Non-weedy  |           |                            |                                                                     |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          |                 |          |         |          |        |            |           |                            |                                                                     |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   |                 |          |         |          |        | Non-weedy  |           |                            |                                                                     |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           |                 |          |         |          |        | Colonizing |           |                            |                                                                     |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               |                 |          |         |          |        | Non-weedy  | Y         | Tandø(1979); Stewart(1989) | Dominant in warm dry climaxmontaneregions; Needsopenspacesto invade |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    |                 |          |         |          | Yes    | Non-weedy  |           |                            |                                                                     |



## ROOTS CON'T

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|-------------|----------------------------------------------------|------------------------------------------------|-----------------|----------|---------|----------|--------|----------------|-----------|---------------------|-------------------|
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i> | <i>Rhus radicans</i>                           |                 |          |         |          |        |                |           |                     |                   |
| RHTR        | <i>Rhus trilobata</i>                              | <i>Rhus trilobata</i>                          | Endomycorrhizal |          |         |          | Yes    | Non-weedy      |           |                     |                   |
| RICE        | <i>Ribes cereum</i>                                | <i>Ribes cereum</i>                            |                 |          |         |          | Yes    | Non-weedy      |           |                     |                   |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>        | <i>Ribes inebrians</i>                         |                 |          |         |          |        |                |           |                     |                   |
| RIIN2       | <i>Ribes inerme</i>                                | <i>Ribes inerme</i>                            |                 |          |         |          | Yes    | Non-weedy      |           |                     |                   |
| RILE        | <i>Ribes leptanthum</i>                            | <i>Ribes leptanthum</i>                        |                 |          |         |          | Yes    | Non-weedy      |           |                     |                   |
| RIMO2       | <i>Ribes montigenum</i>                            | <i>Ribes montigenum</i>                        |                 |          |         |          | Yes    | Non-weedy      |           |                     |                   |
| RIPI        | <i>Ribes pinetorum</i>                             | <i>Ribes pinetorum</i>                         |                 |          |         |          |        |                |           |                     |                   |
| RIWO        | <i>Ribes wolfii</i>                                | <i>Ribes wolfii</i>                            |                 |          |         |          |        |                |           |                     |                   |
| RONE        | <i>Robinia neomexicana</i>                         | <i>Robinia neomexicana</i>                     |                 | Possible | Maybe   | Maybe    | Yes    | Non-weedy      |           |                     |                   |
| ROIS2       | <i>Rorippa islandica</i>                           | <i>Rorippa islandica</i>                       |                 |          |         |          |        |                |           |                     |                   |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                | <i>Rorippa nasturtium-aquaticum</i>            | Nonmycorrhizal  |          |         |          | Yes    | Colonizing     |           |                     |                   |
| ROTE2       | <i>Rorippa teres</i>                               | <i>Rorippa obtusa</i>                          |                 |          |         |          |        |                |           |                     |                   |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>femaldiana</i>    | <i>Rorippa palustris</i> subsp. <i>glabra</i>  | Nonmycorrhizal  |          |         |          | Yes    | Non-weedy      |           |                     |                   |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>       | <i>Rorippa palustris</i> subsp. <i>hispida</i> |                 |          |         |          |        |                |           |                     |                   |
| ROSI2       | <i>Rorippa sinuata</i>                             | <i>Rorippa sinuata</i>                         | Nonmycorrhizal  |          |         |          |        | Economic       |           |                     |                   |
| ROSY        | <i>Rorippa sylvestris</i>                          | <i>Rorippa sylvestris</i>                      | Nonmycorrhizal  |          |         |          |        | Non-weedy      |           |                     |                   |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>       | <i>Rorippa truncata</i>                        | Nonmycorrhizal  |          |         |          | Yes    | Non-weedy      |           |                     |                   |
| RONU        | <i>Rosa nutkana</i>                                | <i>Rosa nutkana</i>                            |                 |          |         | No       | Yes    | Non-weedy      |           |                     |                   |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>            | <i>Rosa woodsii</i> var. <i>arizonica</i>      |                 |          |         | No       | Yes    | Non-weedy      |           |                     |                   |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>            | <i>Rosa woodsii</i> var. <i>fendleri</i>       |                 |          |         |          |        |                |           |                     |                   |
| RUPA        | <i>Rubus parviflorus</i>                           | <i>Rubus parviflorus</i>                       |                 |          |         |          | Yes    | Non-weedy      |           |                     |                   |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>          | <i>Rubus strigosus</i> var. <i>arizonicus</i>  |                 |          |         |          |        |                |           |                     |                   |
| RUHI2       | <i>Rudbeckia hirta</i>                             | <i>Rudbeckia hirta</i>                         |                 |          |         |          |        | Non-weedy      |           |                     |                   |
| RULA3       | <i>Rudbeckia laciniata</i>                         | <i>Rudbeckia laciniata</i>                     | Endomycorrhizal |          |         |          | Yes    | Non-weedy      |           |                     |                   |
| RUAC3       | <i>Rumex acetosella</i>                            | <i>Rumex acetosella</i>                        | Endomycorrhizal |          |         | Yes      | Yes    | Economic       |           |                     |                   |
| RUCR        | <i>Rumex crispus</i>                               | <i>Rumex crispus</i>                           | Nonmycorrhizal  |          |         | Yes      | Yes    | Noxious-CO/_MT |           |                     |                   |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>    | <i>Rumex mexicanus</i>                         |                 |          |         |          |        |                |           |                     |                   |

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|-------------|--------------------------------------------------------|----------------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|-------------------|
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                | Nonmycorrhizal  |          |         | Maybe    | Yes               | Non-weedy  |           |                     |                   |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   | Nonmycorrhizal  |          |         | Maybe    | Yes               | Colonizing |           |                     |                   |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             |                 |          |         |          |                   |            |           |                     |                   |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    | Ectomycorrhizal |          |         | Maybe    |                   | Non-weedy  |           |                     |                   |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     |                 |          |         |          |                   |            |           |                     |                   |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      |                 |          |         | Maybe    |                   | Non-weedy  |           |                     |                   |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    |                 |          |         | Maybe    |                   | Non-weedy  |           |                     |                   |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 | Ectomycorrhizal |          |         | Maybe    |                   | Non-weedy  |           |                     |                   |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  |                 |          |         |          |                   |            |           |                     |                   |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    |                 |          |         |          |                   | Economic   |           |                     |                   |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  |                 |          |         |          |                   |            |           |                     |                   |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              |                 |          |         |          |                   |            |           |                     |                   |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |                 |          |         |          |                   |            |           |                     |                   |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                |                 |          |         |          |                   |            |           |                     |                   |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             | Nonmycorrhizal  |          |         |          |                   | Economic   |           |                     |                   |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           | Endomycorrhizal |          |         | Yes      | Yes               | Economic   |           |                     |                   |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              |                 |          |         |          |                   |            |           |                     |                   |
| SECO        | <i>Sedum cockerellii</i>                               | <i>Sedum cockerellii</i>                                 |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| SEAR3       | <i>Senecio arizonicus</i>                              | <i>Senecio arizonicus</i>                                |                 |          |         |          |                   |            |           |                     |                   |
| SEAT        | <i>Senecio atratus</i>                                 | <i>Senecio atratus</i>                                   |                 |          |         | No       |                   | Non-weedy  |           |                     |                   |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>         | <i>Senecio bigelovii</i> var. <i>bigelovii</i>           |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SECR        | <i>Senecio crassulus</i>                               | <i>Senecio crassulus</i>                                 |                 |          |         | No       |                   | Non-weedy  |           |                     |                   |

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|-------------|-------------------------------------------------------|-----------------------------------------------------|-----------------|----------|---------|----------|-------------------|------------|-----------|---------------------|---------------------------------|
| SECY        | <i>Senecio cymbalarioides</i>                         | <i>Senecio cymbalarioides</i>                       |                 |          |         |          |                   |            |           |                     |                                 |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>        | <i>Senecio douglasii</i> var. <i>longilobus</i>     |                 |          |         |          |                   | Non-weedy  |           |                     |                                 |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougallii</i>   | <i>Senecio eremophilus</i> var. <i>macdougallii</i> |                 |          |         |          |                   |            |           |                     |                                 |
| SENEEN      | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>                           |                 |          |         |          |                   |            |           |                     |                                 |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>                             |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                       |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                         |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>                         |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>                          |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>                         |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>                          |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>                         |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SEWE2       | <i>Senecio wernerifolius</i>                          | <i>Senecio werneriaefolius</i>                      |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                             |                 |          |         | No       |                   | Non-weedy  |           |                     |                                 |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                           |                 |          |         |          |                   |            |           |                     |                                 |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                            |                 |          |         |          |                   |            |           |                     |                                 |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                         |                 |          |         |          |                   |            | Y         | Eddleman(1984)      | Dominant in old field community |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                              | Endomycorrhizal | No       | No      |          |                   | Economic   |           |                     |                                 |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                             |                 |          |         |          |                   | Non-weedy  |           |                     |                                 |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                            | Nonmycorrhizal  |          |         |          |                   | Colonizing |           |                     |                                 |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                            | Nonmycorrhizal  |          |         |          |                   | Colonizing |           |                     |                                 |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                              | Nonmycorrhizal  |          |         |          |                   | Non-weedy  |           |                     |                                 |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                        | Nonmycorrhizal  |          |         |          | Yes               | Economic   |           |                     |                                 |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                             | Nonmycorrhizal  |          |         | No       | Yes-<br>Qualified | Colonizing |           |                     |                                 |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                        |                 |          |         |          |                   |            |           |                     |                                 |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                        |                 |          |         |          |                   |            |           |                     |                                 |

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| SIMO2       | <i>Sisyrinchium montanum</i>                                    | <i>Sisyrinchium montanum</i>                          |                 |          |         |          |                   |                   |           |                                  |                                 |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>                   | <i>Sitanion hystrix</i>                               | Endomycorrhizal |          |         |          | Yes               | Non-weedy         |           |                                  |                                 |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>              | <i>Smilacina racemosa</i>                             |                 | Possible | Maybe   |          | Yes               | Non-weedy         |           |                                  |                                 |
| MAST4       | <i>Maianthemum stellatum</i>                                    | <i>Smilacina stellata</i>                             |                 |          |         |          | Yes               | Non-weedy         |           |                                  |                                 |
| SOAM        | <i>Solanum americanum</i>                                       | <i>Solanum americanum</i>                             |                 |          |         |          | Yes-<br>Qualified | Economic          |           |                                  |                                 |
| SODO        | <i>Solanum douglasii</i>                                        | <i>Solanum douglasii</i>                              |                 |          |         |          |                   |                   |           |                                  |                                 |
| SOEL        | <i>Solanum elaeagnifolium</i>                                   | <i>Solanum elaeagnifolium</i>                         |                 |          |         |          |                   | Noxious-<br>CO/WY |           |                                  |                                 |
| SOJA        | <i>Solanum jamesii</i>                                          | <i>Solanum jamesii</i>                                |                 |          |         |          | Yes-<br>Qualified | Non-weedy         |           |                                  |                                 |
| SOPT3       | <i>Solanum ptychanthum</i>                                      | <i>Solanum nigrum</i>                                 |                 |          |         |          | Poison            | Economic          |           |                                  |                                 |
| SORO        | <i>Solanum rostratum</i>                                        | <i>Solanum rostratum</i>                              |                 |          |         |          |                   | Economic          |           |                                  |                                 |
| SOSA        | <i>Solanum sarrachoides</i>                                     | <i>Solanum sarachoides</i>                            |                 |          |         |          |                   | Economic          |           |                                  |                                 |
| SOTR        | <i>Solanum triflorum</i>                                        | <i>Solanum triflorum</i>                              |                 |          |         |          | Yes-<br>Qualified | Economic          |           |                                  |                                 |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             |                 |          |         |          |                   |                   |           |                                  |                                 |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     |                 |          |         |          | Yes               | Non-weedy         | Y         | Miller (1984);<br>Eddleman(1984) | Dominant in old field community |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> |                 |          |         |          | Yes               | Non-weedy         |           |                                  |                                 |
| SOMO        | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                |                 |          |         |          |                   | Non-weedy         |           |                                  |                                 |
| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          |                 |          |         |          |                   | Non-weedy         |           |                                  |                                 |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          |                 |          |         |          |                   | Non-weedy         |           |                                  |                                 |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               |                 |          |         |          |                   |                   |           |                                  |                                 |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            |                 |          |         |          |                   |                   |           |                                  |                                 |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           |                 |          |         |          |                   | Non-weedy         |           |                                  |                                 |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    |                 |          |         |          |                   | Non-weedy         |           |                                  |                                 |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         |                 |          |         |          |                   |                   |           |                                  |                                 |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  | Endomycorrhizal |          |         |          | Yes               | Economic          | Y         | Eddleman(1984)                   | Dominant in old field community |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              | Endomycorrhizal |          |         |          | Yes               | Economic          |           |                                  |                                 |

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| SONU        | <i>Sophora nuttalliana</i>                          | <i>Sophora nuttalliana</i>                            |                 | Possible | Maybe   |          |                   | Non-weedy  |           |                     |                   |
| SONU2       | <i>Sorghastrum nutans</i>                           | <i>Sorghastrum nutans</i>                             |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>        | <i>Spergularia marina</i>                             | Nonmycorrhizal  |          |         |          |                   | Non-weedy  |           |                     |                   |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                     | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>       | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         | Endomycorrhizal |          |         |          |                   | Non-weedy  |           |                     |                   |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>    | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SPIN2       | <i>Sphaeralcea incana</i>                           | <i>Sphaeralcea incana</i>                             |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SPIN3       | <i>Sphenopholis intermedia</i>                      | <i>Sphenopholis intermedia</i>                        |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SPAI        | <i>Sporobolus airoides</i>                          | <i>Sporobolus airoides</i>                            |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i> | <i>Sporobolus asper</i>                               |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| SPCO4       | <i>Sporobolus contractus</i>                        | <i>Sporobolus contractus</i>                          |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| SPCR        | <i>Sporobolus cryptandrus</i>                       | <i>Sporobolus cryptandrus</i>                         |                 |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| SPNE        | <i>Sporobolus nealleyi</i>                          | <i>Sporobolus nealleyi</i>                            |                 |          |         |          |                   |            |           |                     |                   |
| SPT5        | <i>Sporobolus texanus</i>                           | <i>Sporobolus texanus</i>                             |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| STPA        | <i>Stachys palustris</i>                            | <i>Stachys palustris</i>                              |                 |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| STPI        | <i>Stanleya pinnata</i>                             | <i>Stanleya pinnata</i>                               | Nonmycorrhizal  |          |         |          | Yes-<br>Qualified | Non-weedy  |           |                     |                   |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                    | <i>Stellaria jamesiana</i>                            | Nonmycorrhizal  |          |         |          | Yes               | Non-weedy  |           |                     |                   |
| STLO        | <i>Stellaria longifolia</i>                         | <i>Stellaria longifolia</i>                           | Nonmycorrhizal  |          |         |          |                   | Noxious-MT |           |                     |                   |
| STLO2       | <i>Stellaria longipes</i>                           | <i>Stellaria longipes</i>                             | Nonmycorrhizal  |          |         |          |                   | Noxious-MT |           |                     |                   |
| STPA4       | <i>Stephanomeria pauciflora</i>                     | <i>Stephanomeria pauciflora</i>                       |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| STTE2       | <i>Stephanomeria tenuifolia</i>                     | <i>Stephanomeria tenuifolia</i>                       |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| ACNE        | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>       | <i>Stipa columbiana</i>                               |                 |          |         |          |                   | Non-weedy  |           |                     |                   |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>       | <i>Stipa comata</i>                                   | Endomycorrhizal |          |         |          |                   | Non-weedy  |           |                     |                   |
| ACEM4       | <i>Achnatherum eminens</i>                          | <i>Stipa eminens</i>                                  |                 |          |         |          |                   |            |           |                     |                   |

## ROOTS CON'T

| USDA Symbol | USDA NRCS PLANTS                                           | Martin and Hutchins (1980)                                 | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible | Weediness | Oldfields | Oldfield References     | Oldfield Comments           |
|-------------|------------------------------------------------------------|------------------------------------------------------------|-----------------|----------|---------|----------|--------|-----------|-----------|-------------------------|-----------------------------|
| ACLE9       | <i>Achnatherum lettermanii</i>                             | <i>Stipa lettermanii</i>                                   |                 |          |         |          |        | Non-weedy |           |                         |                             |
| HENE5       | <i>Hesperostipa neomexicana</i>                            | <i>Stipa neomexicana</i>                                   |                 |          |         |          |        | Non-weedy |           |                         |                             |
| ACRO7       | <i>Achnatherum robustum</i>                                | <i>Stipa robusta</i>                                       |                 |          |         |          |        | Economic  |           |                         |                             |
| STCO6       | <i>Streptanthus cordatus</i>                               | <i>Streptanthus cordatus</i>                               | Nonmycorrhizal  |          |         |          |        | Non-weedy |           |                         |                             |
| STAM2       | <i>Streptopus amplexifolius</i>                            | <i>Streptopus amplexifolius</i>                            |                 |          |         |          | Yes    | Non-weedy |           |                         |                             |
| FRSP        | <i>Frasera speciosa</i>                                    | <i>Swertia radiata</i>                                     |                 |          |         |          |        |           |           |                         |                             |
| SYOC        | <i>Symphoricarpos occidentalis</i>                         | <i>Symphoricarpos occidentalis</i>                         |                 |          |         |          | Yes    | Non-weedy |           |                         |                             |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                           | <i>Symphoricarpos oreophilus</i>                           |                 |          |         |          |        | Non-weedy |           |                         |                             |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                          | <i>Symphoricarpos rotundifolius</i>                        |                 |          |         |          |        |           |           |                         |                             |
| TAPA3       | <i>Talinum parviflorum</i>                                 | <i>Talinum parviflorum</i>                                 | Nonmycorrhizal  |          |         |          |        | Non-weedy |           |                         |                             |
| TAGA        | <i>Tamarix gallica</i>                                     | <i>Tamarix gallica</i>                                     |                 |          |         |          |        |           |           |                         |                             |
| TACH2       | <i>Tamarix chinensis</i>                                   | <i>Tamarix pentandra</i>                                   |                 |          |         | Yes      |        | Economic  |           |                         |                             |
| TALA2       | <i>Taraxacum laevigatum</i>                                | <i>Taraxacum laevigatum</i>                                |                 |          |         |          |        | Economic  |           |                         |                             |
| TAOF        | <i>Taraxacum officinale</i>                                | <i>Taraxacum officinale</i>                                | Endomycorrhizal |          |         | Yes      | Yes    | Economic  |           |                         |                             |
| TECA2       | <i>Tetradymia canescens</i>                                | <i>Tetradymia canescens</i>                                | Endomycorrhizal |          | Yes     |          |        | Non-weedy |           |                         |                             |
| TECA2       | <i>Tetradymia canescens</i>                                | <i>Tetradymia canescens</i> var. <i>inermis</i>            | Endomycorrhizal |          |         | Yes      | Yes    | Economic  | Y         | Carson & Barrett (1988) | Dominant in older community |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            |                 |          |         |          |        | Non-weedy |           |                         |                             |
| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      |                 |          |         |          |        | Non-weedy |           |                         |                             |
| THME        | <i>Thelesperma megapotamicum</i>                           | <i>Thelesperma megapotamicum</i>                           |                 |          |         |          | Yes    | Non-weedy |           |                         |                             |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>       | <i>Thelesperma trifidum</i>                                |                 |          |         |          |        |           |           |                         |                             |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i> | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> | Nonmycorrhizal  |          |         |          |        | Non-weedy |           |                         |                             |
| THWR        | <i>Thelypodium wrightii</i>                                | <i>Thelypodium wrightii</i>                                | Nonmycorrhizal  |          |         |          |        | Non-weedy |           |                         |                             |
| THMO6       | <i>Thermopsis montana</i>                                  | <i>Thermopsis montanum</i>                                 |                 | Reported | Maybe   |          |        | Non-weedy |           |                         |                             |

## ROOTS CON'T

| USDA Symbol | USDA NRCS PLANTS                                           | Martin and Hutchins (1980)                        | Mycorrhiza      | Nod Form | Nit Fix | Hayfever | Edible            | Weediness     | Oldfields | Oldfield References | Oldfield Comments |
|-------------|------------------------------------------------------------|---------------------------------------------------|-----------------|----------|---------|----------|-------------------|---------------|-----------|---------------------|-------------------|
| THDI4       | <i>Thermopsis divaricarpa</i>                              | <i>Thermopsis pinetorum</i>                       |                 | Possilbe | Maybe   |          |                   | Non-weedy     |           |                     |                   |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>               | <i>Thlaspi alpestre</i>                           | Nonmycorrhizal  |          |         |          | Yes               | Noxious-ND    |           |                     |                   |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>         | <i>Torreyochloa pauciflora</i>                    |                 |          |         |          |                   | Non-weedy     |           |                     |                   |
| TOAN        | <i>Townsendia annua</i>                                    | <i>Townsendia annua</i>                           |                 |          |         |          |                   | Non-weedy     |           |                     |                   |
| TOEX        | <i>Townsendia eximia</i>                                   | <i>Townsendia eximia</i>                          |                 |          |         |          |                   | Non-weedy     |           |                     |                   |
| TOFO        | <i>Townsendia formosa</i>                                  | <i>Townsendia formosa</i>                         |                 |          |         |          |                   |               |           |                     |                   |
| TOIN        | <i>Townsendia incana</i>                                   | <i>Townsendia incana</i>                          | Endomycorrhizal |          |         |          |                   | Non-weedy     |           |                     |                   |
| TOEX2       | <i>Townsendia exscapa</i>                                  | <i>Townsendia exscapa</i>                         |                 |          |         |          |                   | Non-weedy     |           |                     |                   |
| TRNE        | <i>Tragia nepetifolia</i>                                  | <i>Tragia nepetaefolia</i>                        |                 |          |         |          |                   | Non-weedy     |           |                     |                   |
| TRDU        | <i>Tragopogon dubius</i>                                   | <i>Tragopogon dubius</i>                          |                 |          |         |          | Yes               | Economic      |           |                     |                   |
| TRPR        | <i>Tragopogon pratensis</i>                                | <i>Tragopogon pratensis</i>                       |                 |          |         |          | Yes               | Economic      |           |                     |                   |
| TRCAO       | <i>Trautvetteria carolinensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                      |                 |          |         |          |                   |               |           |                     |                   |
| TRTE        | <i>Tribulus terrestris</i>                                 | <i>Tribulus terrestris</i>                        |                 | Reported | Maybe   |          |                   | Noxious-CO/WY |           |                     |                   |
| ERPU8       | <i>Erioneuron pulchellum</i>                               | <i>Tridens pulchellus</i>                         |                 |          |         |          |                   |               |           |                     |                   |
| TRDA2       | <i>Trifolium dasyphyllum</i>                               | <i>Trifolium dasyphyllum</i>                      |                 | Possible | Maybe   |          |                   | Non-weedy     |           |                     |                   |
| TRHY        | <i>Trifolium hybridum</i>                                  | <i>Trifolium hybridum</i>                         | Endomycorrhizal | Reported | Yes     |          |                   | Colonizing    |           |                     |                   |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>            | <i>Trifolium lacerum</i>                          |                 |          |         |          |                   |               |           |                     |                   |
| TRPR2       | <i>Trifolium pratense</i>                                  | <i>Trifolium pratense</i>                         | Endomycorrhizal | Reported | Yes     |          |                   | Colonizing    |           |                     |                   |
| TRCA5       | <i>Trifolium campestre</i>                                 | <i>Trifolium procumbens</i>                       | Endomycorrhizal | Reported | Maybe   |          |                   | Non-weedy     |           |                     |                   |
| TRRE3       | <i>Trifolium repens</i>                                    | <i>Trifolium repens</i>                           | Endomycorrhizal | Reported | Yes     |          |                   | Colonizing    |           |                     |                   |
| TRPE4       | <i>Triodanis perfoliata</i>                                | <i>Triodanis perfoliata</i>                       |                 |          |         |          |                   | Non-weedy     |           |                     |                   |
| TRMO5       | <i>Trisetum montanum</i>                                   | <i>Trisetum montanum</i>                          |                 |          |         |          |                   | Non-weedy     |           |                     |                   |
| TRSP2       | <i>Trisetum spicatum</i>                                   | <i>Trisetum spicatum</i>                          |                 |          |         |          | Yes-<br>Qualified | Colonizing    |           |                     |                   |
| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                            | Nonmycorrhizal  |          |         |          | Yes               | Non-weedy     |           |                     |                   |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                      | Nonmycorrhizal  |          |         |          | Yes               | Economic      |           |                     |                   |
| URGR        | <i>Urtica gracilenta</i>                                   | <i>Urtica gracilenta</i>                          |                 |          |         |          |                   |               |           |                     |                   |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                            |                 |          |         |          |                   |               |           |                     |                   |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                        |                 |          |         |          | Yes               | Non-weedy     |           |                     |                   |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                        |                 |          |         |          |                   | Non-weedy     |           |                     |                   |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i> |                 |          |         |          |                   |               |           |                     |                   |

## ROOTS CON'T

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|-------------|------------------------------------------------------------|------------------------------------------------------|------------|----------|---------|----------|-------------------|------------|-----------|-------------------------|-------------------------------|
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         |            |          |         |          | Poison            | Economic   |           |                         |                               |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             |            |          |         |          |                   | Economic   |           |                         |                               |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         |            |          |         |          |                   | Non-weedy  |           |                         |                               |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             |            |          |         |          |                   | Economic   |           |                         |                               |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             |            |          |         |          |                   |            |           |                         |                               |
| VEMA        | <i>Verbena macdougalii</i>                                 | <i>Verbena macdougalii</i>                           |            |          |         |          |                   | Non-weedy  |           |                         |                               |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              |            |          |         |          |                   | Non-weedy  |           |                         |                               |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> |            |          |         |          |                   |            |           |                         |                               |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            |            |          |         |          | Yes               | Non-weedy  |           |                         |                               |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             |            |          |         |          |                   | Colonizing |           |                         |                               |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     |            |          |         |          |                   | Economic   |           |                         |                               |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        |            |          |         |          |                   | Non-weedy  |           |                         |                               |
| VEWO2       | <i>Veronica wormskjoldii</i>                               | <i>Veronica wormskjoldii</i>                         |            |          |         |          |                   | Non-weedy  |           |                         |                               |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              |            |          |         | No       | Yes               | Colonizing |           |                         |                               |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>               | <i>Vicia americana</i> var. <i>americana</i>         |            | Reported | Yes     |          | Yes-<br>Qualified | Non-weedy  |           |                         |                               |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>linearis</i>          |            |          |         |          |                   |            |           |                         |                               |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>             |            |          |         |          |                   |            |           |                         |                               |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>           | <i>Vicia exigua</i>                                  |            |          |         |          |                   |            |           |                         |                               |
| VILE3       | <i>Vicia leucophaea</i>                                    | <i>Vicia leucophaea</i>                              |            |          |         |          |                   |            |           |                         |                               |
| VICO        | <i>Viguiera cordifolia</i>                                 | <i>Viguiera cordifolia</i>                           |            |          |         |          |                   |            |           |                         |                               |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i>        | <i>Viguiera multiflora</i>                           |            |          |         |          |                   |            |           |                         |                               |
| VIAD        | <i>Viola adunca</i>                                        | <i>Viola adunca</i>                                  |            |          |         |          | Yes               | Non-weedy  |           |                         |                               |
| VICA4       | <i>Viola canadensis</i>                                    | <i>Viola canadensis</i>                              |            |          |         |          | Yes               | Non-weedy  |           |                         |                               |
| VISO        | <i>Viola sororia</i>                                       | <i>Viola nephrophylla</i>                            |            |          |         |          | Yes               | Non-weedy  | Y         | Goldberg & Gross (1988) | Dominant on xerix ridge sites |
| VIPE2       | <i>Viola pedatifida</i>                                    | <i>Viola pedatifida</i>                              |            |          |         |          | Yes               | Non-weedy  |           |                         |                               |
| VIAR2       | <i>Vitis arizonica</i>                                     | <i>Vitis arizonica</i> var. <i>arizonica</i>         |            |          |         |          | Yes               | Non-weedy  |           |                         |                               |
| VIVU        | <i>Vitis vulpina</i>                                       | <i>Vitis vulpina</i>                                 |            |          |         |          |                   |            |           |                         |                               |
|             |                                                            | <i>Woodsia mexicana</i>                              |            |          |         |          |                   | Non-weedy  |           |                         |                               |
| WOOR        | <i>Woodsia oregana</i>                                     | <i>Woodsia oregana</i>                               |            |          |         |          |                   | Non-weedy  |           |                         |                               |



## ROOTS CON'T

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|-------------|--------------------------------------------------|--------------------------------------------------|------------|----------|---------|----------|--------|-----------|-----------|---------------------|-------------------|
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i> | <i>Xanthium strumarium</i> var. <i>canadense</i> |            |          |         |          |        | Economic  |           |                     |                   |
| YUAN2       | <i>Yucca angustissima</i>                        | <i>Yucca angustissima</i>                        |            |          |         |          |        | Non-weedy |           |                     |                   |
| YUBA        | <i>Yucca baccata</i>                             | <i>Yucca baccata</i>                             |            |          |         |          | Yes    | Economic  |           |                     |                   |
| YUGL        | <i>Yucca glauca</i>                              | <i>Yucca glauca</i>                              |            |          |         |          | Yes    | Economic  |           |                     |                   |
| ZIGR        | <i>Zinnia grandiflora</i>                        | <i>Zinnia grandiflora</i>                        |            |          |         |          |        | Non-weedy |           |                     |                   |
| ZIEL2       | <i>Zigadenus elegans</i>                         | <i>Zygadenus elegans</i>                         |            |          |         |          |        |           |           |                     |                   |

### Key for heading acronyms and abbreviations:

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

Mycorrhiza = mycorrhizal relationships.

Nod form = nodule forming.

Nit fix = nitrogen fixing.

Hayfever = hayfever causing.

Edible = a plant that can be eaten as food by humans.

Weediness = a plant considered undesirable or troublesome.

Oldfields = information about growth on old disturbed areas.

WETLAND



Scarlet Lobelia

## WETLAND

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | National Wetland List (Reed 1988b) | N.M. Wetland List (Reed 1988a) | Disturbed Sites | Disturbance References                                                               | Comments on Disturbed Sites Growth                                                                                                  |
|--------------|------------------------------------------------------|-------------------------------------------------|------------------------------------|--------------------------------|-----------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           |                                    |                                | Y               | Vale (1981)                                                                          | Early invader                                                                                                                       |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | Upland, FAC                        | FACU (+)                       |                 |                                                                                      |                                                                                                                                     |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    | FACU, FAC                          | FAC                            | Y               | Klinka et al. (1989)                                                                 | Inhabits primary succession habitats                                                                                                |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        | FAC, FACW                          | FACW (-)                       |                 |                                                                                      |                                                                                                                                     |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> |                                    |                                | Y               | Klinka et al. (1989)                                                                 | Characteristic of disturbed sites                                                                                                   |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     | FACW                               | FACW                           |                 |                                                                                      |                                                                                                                                     |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    |                                    |                                |                 |                                                                                      |                                                                                                                                     |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      |                                    |                                |                 |                                                                                      |                                                                                                                                     |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   |                                    |                                |                 |                                                                                      |                                                                                                                                     |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       |                                    |                                |                 |                                                                                      |                                                                                                                                     |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      | FACU, FAC                          | FAC                            |                 |                                                                                      |                                                                                                                                     |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       | FACU, FAC                          | FAC                            | Y               | Russell (1985)                                                                       | Frequent occurrence on revegetated coal-mines                                                                                       |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |                                    |                                | Y               | Russell (1985)                                                                       | Frequent occurrence on revegetated coal-mines                                                                                       |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    | FACU, FACW (-)                     | FACW (-)                       |                 |                                                                                      |                                                                                                                                     |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        | FACU (-), FAC                      | FAC (-)                        |                 |                                                                                      |                                                                                                                                     |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   | Upland, FAC                        | FAC                            | Y               | Jastrow et al. (1984a); Sindelar (1984); Eddleman (1984)                             | Did well in mixed community on revegetated mined-soil                                                                               |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     |                                    |                                |                 |                                                                                      |                                                                                                                                     |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |                                    |                                | Y               | Russell (1985)                                                                       | Abundant occurrence on revegetated coal-mines                                                                                       |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   |                                    |                                |                 |                                                                                      |                                                                                                                                     |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         | Upland, FAC                        | FACU (-)                       | Y               | Russell (1985)                                                                       | Frequent occurrence on revegetated coal-mines                                                                                       |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        | Upland, FAC (-)                    | FAC (-)                        | Y               | Pinchak et al. (1985); Brand & Goetz (1986); Jastrow et al. (1984a); Sindelar (1984) | Dominant species in mined area; Does better on grazed land; Did well in mixed community on mined soils; Good invader on mined soils |

\* A key for heading acronyms and abbreviations is on the last page of this table.

# WETLAND CON'T

| USDA Symbol            | USDA NRCS PLANTS                                                                             | Martin and Hutchins (1980)                | National Wetland List (Reed 1988b) | N.M. Wetland List (Reed 1988a) | Disturbed Sites | Disturbance References | Comments on Disturbed Sites Growth            |
|------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|-----------------------------------------------|
| ELTRS                  | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>                                           | <i>Agropyron subsecundum</i>              |                                    |                                | Y               | Russell (1985)         | Frequent occurrence on revegetated coal-mines |
| ELTRT                  | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>                                          | <i>Agropyron trachycaulum</i>             | FACU, FAC                          | FAC                            | Y               | Russell (1985)         | Abundant occurrence on revegetated coal-mines |
| AGGI2                  | <i>Agrostis gigantea</i>                                                                     | <i>Agrostis alba</i>                      | FACW, OBLW                         | FACW (+)                       |                 |                        |                                               |
| AGEX                   | <i>Agrostis exarata</i>                                                                      | <i>Agrostis exarata</i>                   | FACW                               | FACW                           |                 |                        |                                               |
| AGID                   | <i>Agrostis idahoensis</i>                                                                   | <i>Agrostis idahoensis</i>                |                                    | FAC, FACW                      |                 |                        |                                               |
| AGPE                   | <i>Agrostis perennans</i>                                                                    | <i>Agrostis perennans</i>                 | FACU, FACW                         | FAC                            |                 |                        |                                               |
| AGSC5                  | <i>Agrostis scabra</i>                                                                       | <i>Agrostis scabra</i>                    | FAC, FAC (+)                       | FAC                            |                 |                        |                                               |
| POVI9                  | <i>Polypogon viridis</i>                                                                     | <i>Agrostis semiverticillata</i>          | FACW, OBLW                         | FACW (+)                       |                 |                        |                                               |
| AGST2                  | <i>Agrostis stolonifera</i>                                                                  | <i>Agrostis stolonifera</i>               | FAC (+), FACW                      | Not Indicated                  |                 |                        |                                               |
| AIAL                   | <i>Ailanthus altissima</i>                                                                   | <i>Ailanthus altissima</i>                | FACU                               | FACU                           |                 |                        |                                               |
| ALCEO                  | <i>Allium cernuum</i> var. <i>obtusum</i>                                                    | <i>Allium cernuum</i> var. <i>obtusum</i> |                                    |                                |                 |                        |                                               |
| ALGE                   | <i>Allium geyeri</i>                                                                         | <i>Allium geyeri</i>                      | FACU                               | FACU                           |                 |                        |                                               |
| ALMA4                  | <i>Allium macropetalum</i>                                                                   | <i>Allium macropetalum</i>                |                                    |                                |                 |                        |                                               |
| ALTE                   | <i>Allium textile</i>                                                                        | <i>Allium textile</i>                     |                                    |                                |                 |                        |                                               |
| ALOB2                  | <i>Alnus oblongifolia</i>                                                                    | <i>Alnus oblongifolia</i>                 | FACW (+)                           | FACW (+)                       |                 |                        |                                               |
| ALINT                  | <i>Alnus incana</i> ssp. <i>tenuifolia</i>                                                   | <i>Alnus tenuifolia</i>                   |                                    |                                | Y               | Walker et al. (1986)   | Dominant in early succession                  |
| ALAE                   | <i>Alopecurus aequalis</i>                                                                   | <i>Alopecurus aequalis</i>                | OBLW                               | OBLW                           |                 |                        |                                               |
| ALRO3                  | <i>Alcea rosea</i>                                                                           | <i>Althaea rosea</i>                      |                                    |                                |                 |                        |                                               |
| AMAL                   | <i>Amaranthus albus</i>                                                                      | <i>Amaranthus albus</i>                   | FACU (-), FACU                     | FACU                           |                 |                        |                                               |
| AMAL;<br>AMBL          | <i>Amaranthus albus</i> ;<br><i>Amaranthus blitoides</i>                                     | <i>Amaranthus graecizans</i>              |                                    |                                |                 |                        |                                               |
| AMHY                   | <i>Amaranthus hybridus</i>                                                                   | <i>Amaranthus hybridus</i>                |                                    |                                |                 |                        |                                               |
| AMHY2                  | <i>Amaranthus hypochondriacus</i> L.                                                         | <i>Amaranthus leucocarpus</i>             |                                    |                                |                 |                        |                                               |
| AMPA                   | <i>Amaranthus palmeri</i> S. Wats.                                                           | <i>Amaranthus palmeri</i>                 | FACU (-), FACU                     | FACU                           |                 |                        |                                               |
| AMPO2                  | <i>Amaranthus powellii</i> S. Wats.                                                          | <i>Amaranthus powellii</i>                |                                    |                                |                 |                        |                                               |
| AMRE                   | <i>Amaranthus retroflexus</i> L.                                                             | <i>Amaranthus retroflexus</i>             | FACU (-),<br>FACU (-)              | Not Indicated                  | Y               | Tilman (1986)          | Dominant in early succession                  |
| AMAR;<br>AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ;<br><i>Amaranthus bigelovii</i> ;<br><i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                 |                                    |                                |                 |                        |                                               |



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|-------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------|--------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| AMAR2       | <i>Ambrosia artemisiifolia</i>                          | <i>Ambrosia artemisiifolia</i>                          | FACU (-),<br>FACU (+)              | FACU                           | Y               | Monk (1983);<br>Carson & Barrett (1988); Miller & Werner (1987);<br>Koeber (1979);<br>Squiers & Wistendahl (1977); Armesto & Pickett (1985) | Dominant in early succession                                          |
| AMPS        | <i>Ambrosia psilostachya</i>                            | <i>Ambrosia psilostachya</i>                            | FACU (-), FAC                      | FAC                            |                 |                                                                                                                                             |                                                                       |
| AMUTU       | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>      | <i>Amelanchier bakeri</i>                               |                                    |                                |                 |                                                                                                                                             |                                                                       |
| AMUTU       | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>      | <i>Amelanchier oreophila</i>                            |                                    |                                |                 |                                                                                                                                             |                                                                       |
| AMPU5       | <i>Amelanchier pumila</i>                               | <i>Amelanchier polycarpa</i>                            |                                    |                                |                 |                                                                                                                                             |                                                                       |
| AMUT        | <i>Amelanchier utahensis</i>                            | <i>Amelanchier utahensis</i>                            |                                    |                                |                 |                                                                                                                                             |                                                                       |
| AMCA6       | <i>Amorpha canescens</i>                                | <i>Amorpha canescens</i>                                |                                    |                                |                 |                                                                                                                                             |                                                                       |
| AMFR        | <i>Amorpha fruticosa</i>                                | <i>Amorpha fruticosa</i> var. <i>angustifolia</i>       | FAC, OBLW                          | FACW (+)                       |                 |                                                                                                                                             |                                                                       |
| AMNA        | <i>Amorpha nana</i>                                     | <i>Amorpha nana</i>                                     | FACU (?)                           | Not Indicated                  |                 |                                                                                                                                             |                                                                       |
| ANAR        | <i>Anagallis arvensis</i>                               | <i>Anagallis arvensis</i>                               | Upland, FACW (-)                   | FAC                            |                 |                                                                                                                                             |                                                                       |
| ANMA        | <i>Anaphalis margaritacea</i>                           | <i>Anaphalis margaritacea</i>                           |                                    |                                |                 |                                                                                                                                             |                                                                       |
| BOBAB       | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>   | <i>Andropogon barbinodis</i>                            |                                    |                                |                 |                                                                                                                                             |                                                                       |
| ANGE        | <i>Andropogon gerardii</i>                              | <i>Andropogon gerardii</i>                              | FACU, FAC (-)                      | FAC                            |                 |                                                                                                                                             |                                                                       |
| ANHA        | <i>Andropogon hallii</i>                                | <i>Andropogon hallii</i>                                |                                    |                                | Y               | Eddleman (1984)                                                                                                                             | Did well on revegetated mined-soils                                   |
| BOSA        | <i>Bothriochloa saccharoides</i>                        | <i>Andropogon saccharoides</i>                          |                                    |                                |                 |                                                                                                                                             |                                                                       |
| SCSCS2      | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>    | <i>Andropogon scoparius</i>                             |                                    |                                | Y               | Monk (1983);<br>Jastrow et al. (1984b)                                                                                                      | Dominant in mid-succession; Did fairly well on refuse treatment soils |
| BOSP3       | <i>Bothriochloa springfieldii</i>                       | <i>Andropogon springfieldii</i>                         |                                    |                                |                 |                                                                                                                                             |                                                                       |
| BOWR2       | <i>Bothriochloa wrightii</i>                            | <i>Andropogon wrightii</i>                              |                                    |                                |                 |                                                                                                                                             |                                                                       |
| ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i> | <i>Androsace septentrionalis</i> var. <i>subulifera</i> | Upland, FAC (-)                    | FAC (-)                        |                 |                                                                                                                                             |                                                                       |
| ANCY        | <i>Anemone cylindrica</i>                               | <i>Anemone cylindrica</i>                               |                                    |                                |                 |                                                                                                                                             |                                                                       |
| ANPI2       | <i>Angelica pinnata</i>                                 | <i>Angelica pinnata</i>                                 | FAC, FACW                          | FACW                           |                 |                                                                                                                                             |                                                                       |
| ANCR2       | <i>Anoda cristata</i>                                   | <i>Anoda cristata</i> var. <i>digitata</i>              | Upland, FAC                        | FAC                            |                 |                                                                                                                                             |                                                                       |
| ANMA5       | <i>Antennaria marginata</i>                             | <i>Antennaria marginata</i>                             |                                    |                                |                 |                                                                                                                                             |                                                                       |
| ANPA4       | <i>Antennaria parvifolia</i>                            | <i>Antennaria parvifolia</i>                            |                                    |                                |                 |                                                                                                                                             |                                                                       |

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|-------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|--------------------------------------------|
| ANRO2       | <i>Antennaria rosea</i>                                       | <i>Antennaria rosea</i>                                       |                                    |                                |                 |                        |                                            |
| ANRO3       | <i>Antennaria rosulata</i>                                    | <i>Antennaria rosulata</i>                                    |                                    |                                |                 |                        |                                            |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               |                                    |                                |                 |                        |                                            |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> |                                    |                                | Y               | Klinka et al. (1989)   | Characteristic of moisture-deficient sites |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            | FACU, FAC (+)                      | FAC (+)                        |                 |                        |                                            |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            |                                    |                                |                 |                        |                                            |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     |                                    |                                |                 |                        |                                            |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   | FACU, FACW (-)                     | FACW (-)                       |                 |                        |                                            |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   |                                    |                                |                 |                        |                                            |
| AQTR        | <i>Aquilegia tritemata</i>                                    | <i>Aquilegia tritemata</i>                                    |                                    |                                |                 |                        |                                            |
| ARDI2       | <i>Arabis X divaricarpa</i>                                   | <i>Arabis divaricarpa</i>                                     | FACU                               | Not Indicated                  |                 |                        |                                            |
| ARDR        | <i>Arabis drummondii</i>                                      | <i>Arabis drummondii</i>                                      | FACU                               | FACU                           |                 |                        |                                            |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | <i>Arabis fendleri</i> var. <i>fendleri</i>                   |                                    |                                |                 |                        |                                            |
| ARGL        | <i>Arabis glabra</i>                                          | <i>Arabis glabra</i>                                          |                                    |                                |                 |                        |                                            |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  | FACU                               | FACU                           |                 |                        |                                            |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | Upland, FACU                       | Not Indicated                  |                 |                        |                                            |
| ARPE2       | <i>Arabis perennans</i>                                       | <i>Arabis perennans</i>                                       |                                    |                                |                 |                        |                                            |
| ARRA        | <i>Aralia racemosa</i>                                        | <i>Aralia racemosa</i>                                        |                                    |                                |                 |                        |                                            |
| ARDI3       | <i>Arceuthobium divaricatum</i>                               | <i>Arceuthobium divaricatum</i>                               |                                    |                                |                 |                        |                                            |
| ARDO        | <i>Arceuthobium douglasii</i>                                 | <i>Arceuthobium douglasii</i>                                 |                                    |                                |                 |                        |                                            |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodium</i>        | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodium</i>      |                                    |                                |                 |                        |                                            |
| ARPU5       | <i>Arctostaphylos pungens</i>                                 | <i>Arctostaphylos pungens</i>                                 |                                    |                                |                 |                        |                                            |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                                | <i>Arctostaphylos uva-ursi</i>                                |                                    |                                | Y               | Klinka et al. (1989)   | Characteristic of moisture-deficient sites |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>                 | <i>Arenaria confusa</i>                                       |                                    |                                |                 |                        |                                            |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               |                                    |                                |                 |                        |                                            |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 |                                    |                                |                 |                        |                                            |
| MOMA3       | <i>Moehringia macrophylla</i>                                 | <i>Arenaria macrophylla</i>                                   |                                    |                                |                 |                        |                                            |
| ARAD        | <i>Aristida adscensionis</i>                                  | <i>Aristida adscensionis</i>                                  |                                    |                                |                 |                        |                                            |
| ARAR6       | <i>Aristida arizonica</i>                                     | <i>Aristida arizonica</i>                                     |                                    |                                |                 |                        |                                            |
| ARHA3       | <i>Aristida havardii</i>                                      | <i>Aristida barbata</i>                                       |                                    |                                |                 |                        |                                            |

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|-------------|------------------------------------------------------|--------------------------------------------------------|------------------------------------|--------------------------------|-----------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| ARDI5       | <i>Aristida divaricata</i>                           | <i>Aristida divaricata</i>                             |                                    |                                | Y               | Tierney & Foxx (1982)                                        | Important species on waste disposal site                                                        |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>     | <i>Aristida fendleriana</i>                            |                                    |                                |                 |                                                              |                                                                                                 |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>       | <i>Aristida longiseta</i>                              |                                    |                                |                 |                                                              |                                                                                                 |
| ARPU9       | <i>Aristida purpurea</i>                             | <i>Aristida purpurea</i>                               |                                    |                                |                 |                                                              |                                                                                                 |
| ARBI3       | <i>Artemisia bigelovii</i>                           | <i>Artemisia bigelovii</i>                             |                                    |                                |                 |                                                              |                                                                                                 |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>     | <i>Artemisia campestris</i> subsp. <i>pacifica</i>     |                                    |                                |                 |                                                              |                                                                                                 |
| ARCA13      | <i>Artemisia cana</i>                                | <i>Artemisia cana</i>                                  | FACU, FACW                         | FACW                           |                 |                                                              |                                                                                                 |
| ARCA14      | <i>Artemisia carruthii</i>                           | <i>Artemisia carruthii</i>                             |                                    |                                | Y               | Tierney & Foxx (1982)                                        | Important species on waste disposal site                                                        |
| ARDR4       | <i>Artemisia dracunculus</i>                         | <i>Artemisia dracunculus</i>                           |                                    |                                | Y               | Tierney & Foxx (1982)                                        | Important species on waste disposal site                                                        |
| ARFI2       | <i>Artemisia filifolia</i>                           | <i>Artemisia filifolia</i>                             |                                    |                                |                 |                                                              |                                                                                                 |
| ARFR3       | <i>Artemisia franserioides</i>                       | <i>Artemisia franserioides</i>                         |                                    |                                |                 |                                                              |                                                                                                 |
| ARFR4       | <i>Artemisia frigida</i>                             | <i>Artemisia frigida</i>                               |                                    |                                | Y               | Pinchak et al. (1985); Reichardt (1982); Eddleman (1984)     | Dominant species in mined area; Dominant in mid succession; Did well on revegetated mined-soils |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>      | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>      |                                    |                                |                 |                                                              |                                                                                                 |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> |                                    |                                | Y               | Tierney & Foxx (1982)                                        | Important species on waste disposal site                                                        |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>    |                                    |                                |                 |                                                              |                                                                                                 |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>     | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>    |                                    |                                |                 |                                                              |                                                                                                 |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>    | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>     |                                    |                                |                 |                                                              |                                                                                                 |
| ARTR2       | <i>Artemisia tridentata</i>                          | <i>Artemisia tridentata</i>                            |                                    |                                | Y               | Pinchak et al. (1985); Koniak (1985); Jastrow et al. (1984a) | Dominant species in mined area; Dominant in late-mid succession                                 |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>       | <i>Asclepias asperula</i> subsp. <i>asperula</i>       |                                    |                                |                 |                                                              |                                                                                                 |
| ASEN        | <i>Asclepias engelmanniana</i>                       | <i>Asclepias engelmanniana</i>                         |                                    |                                |                 |                                                              |                                                                                                 |
| ASIN14      | <i>Asclepias involucrata</i>                         | <i>Asclepias involucrata</i>                           |                                    |                                |                 |                                                              |                                                                                                 |
| ASMA        | <i>Asclepias macrotis</i>                            | <i>Asclepias macrotis</i>                              |                                    |                                |                 |                                                              |                                                                                                 |
| ASSP        | <i>Asclepias speciosa</i>                            | <i>Asclepias speciosa</i>                              |                                    |                                |                 |                                                              |                                                                                                 |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|---------------------------------------|
| ASSU2       | <i>Asclepias subverticillata</i>                          | <i>Asclepias subverticillata</i>                          | Upland, FACU                       | FACU                           |                 |                        |                                       |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>            | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>        |                                    |                                |                 |                        |                                       |
| ASVI        | <i>Asclepias viridiflora</i>                              | <i>Asclepias viridiflora</i>                              |                                    |                                | Y               | Eddleman (1984)        | Did well on revegetated mined-soils   |
| ASOF        | <i>Asparagus officinalis</i>                              | <i>Asparagus officinalis</i>                              | FACU (-), FACU                     | FACU                           |                 |                        |                                       |
| ASTR2       | <i>Asplenium trichomanes</i>                              | <i>Asplenium trichomanes</i>                              |                                    |                                |                 |                        |                                       |
| ASER3       | <i>Aster ericoides</i>                                    | <i>Aster ericoides</i>                                    | Upland, FACU                       | FACU                           |                 |                        |                                       |
| ASFE        | <i>Aster fendleri</i>                                     | <i>Aster fendleri</i>                                     |                                    |                                |                 |                        |                                       |
| ASFO        | <i>Aster foliaceus</i>                                    | <i>Aster foliaceus</i>                                    | FACU, FACW                         | FACW                           |                 |                        |                                       |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>              | <i>Aster glaucodes</i> var. <i>glaucodes</i>              |                                    |                                |                 |                        |                                       |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>            | <i>Aster hesperius</i>                                    | OBLW                               | OBLW                           |                 |                        |                                       |
| ASLA5       | <i>Aster laevis</i>                                       | <i>Aster laevis</i>                                       |                                    |                                |                 |                        |                                       |
| ASNO        | <i>Aster novae-angliae</i>                                | <i>Aster novae-angliae</i>                                | FACW (-), FACW                     | FACW                           |                 |                        |                                       |
| ASOC        | <i>Aster occidentalis</i>                                 | <i>Aster occidentalis</i>                                 | FACU                               | FACU(-), FACU                  |                 |                        |                                       |
| ALPA14      | <i>Almutaster pauciflorus</i>                             | <i>Aster pauciflorus</i>                                  | FACW                               | FACW                           |                 |                        |                                       |
| ASPR2       | <i>Aster praealtus</i>                                    | <i>Aster praealtus</i>                                    | FACW (-), FACW                     | FACW (-)                       |                 |                        |                                       |
| ASAG2       | <i>Astragalus agrestis</i>                                | <i>Astragalus agrestis</i>                                | FACU, FACW (-)                     | FACW (-)                       |                 |                        |                                       |
| ASAM5       | <i>Astragalus amphioxys</i>                               | <i>Astragalus amphioxys</i>                               |                                    |                                |                 |                        |                                       |
| ASBI2       | <i>Astragalus bisulcatus</i>                              | <i>Astragalus bisulcatus</i>                              |                                    |                                |                 |                        |                                       |
| ASCR2       | <i>Astragalus crassicaupus</i>                            | <i>Astragalus crassicaupus.</i>                           |                                    |                                | Y               | Eddleman (1984)        | Did poorly on revegetated mined-soils |
| ASEM2       | <i>Astragalus emoryanus</i>                               | <i>Astragalus emoryanus</i>                               |                                    |                                |                 |                        |                                       |
| ASFL2       | <i>Astragalus flexuosus</i>                               | <i>Astragalus flexuosus</i>                               |                                    |                                |                 |                        |                                       |
| ASGR3       | <i>Astragalus gracilis</i>                                | <i>Astragalus gracilis</i>                                |                                    |                                |                 |                        |                                       |
| ASHU2       | <i>Astragalus humistratus</i>                             | <i>Astragalus humistratus</i>                             |                                    |                                |                 |                        |                                       |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>    | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     |                                    |                                |                 |                        |                                       |
| ASLE8       | <i>Astragalus lentiginosus</i>                            | <i>Astragalus lentiginosus</i>                            |                                    |                                |                 |                        |                                       |
| ASLO3       | <i>Astragalus lonchocarpus</i>                            | <i>Astragalus lonchocarpus</i>                            |                                    |                                |                 |                        |                                       |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> |                                    |                                |                 |                        |                                       |
| ASMO7       | <i>Astragalus mollissimus</i>                             | <i>Astragalus mollissimus</i>                             |                                    |                                |                 |                        |                                       |
| ASPR5       | <i>Astragalus praelongus</i>                              | <i>Astragalus praelongus</i>                              |                                    |                                |                 |                        |                                       |
| ASSH3       | <i>Astragalus shortianus</i>                              | <i>Astragalus shortianus</i>                              |                                    |                                |                 |                        |                                       |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>       | <i>Athyrium filix-femina</i> var. <i>californicum</i>     | FAC, FAC (+)                       | FAC                            |                 |                        |                                       |



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|-------------|-------------------------------------------------------------|-----------------------------------------------------|------------------------------------|--------------------------------|-----------------|--------------------------------------------------------------------|------------------------------------------------------------------------|
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                           | Upland, FACU                       |                                | Y               | Booth (1985); Dvorak (1984); Jastrow et al. (1984) Sindelar (1984) | Dominant on revegetated mined land                                     |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                              | FAC, FACW                          | FAC                            |                 |                                                                    |                                                                        |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                              |                                    |                                |                 |                                                                    |                                                                        |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                               |                                    |                                | Y               | Beley et al. (1982)                                                | Invades transmission-line construction sites                           |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                            |                                    |                                |                 |                                                                    |                                                                        |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                           |                                    |                                |                 |                                                                    |                                                                        |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                         |                                    |                                |                 |                                                                    |                                                                        |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                          | FAC, FACW                          | FACW (-)                       |                 |                                                                    |                                                                        |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                        | OBLW                               | OBLW                           |                 |                                                                    |                                                                        |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                            |                                    |                                |                 |                                                                    |                                                                        |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                              |                                    |                                |                 |                                                                    |                                                                        |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                           |                                    |                                |                 |                                                                    |                                                                        |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                | OBLW                               | OBLW                           |                 |                                                                    |                                                                        |
| BEPL        | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                         | FACW (-)                           | FACW (-)                       |                 |                                                                    |                                                                        |
| BEOC2       | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                          | FAC, FACW                          | FACW                           |                 |                                                                    |                                                                        |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                             | FACW, OBLW                         | OBLW                           |                 |                                                                    |                                                                        |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>       |                                    |                                |                 |                                                                    |                                                                        |
| BICE        | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                | FACW (+), OBLW                     | OBLW                           |                 |                                                                    |                                                                        |
| BITR        | <i>Bidens tripartita</i>                                    | <i>Bidens cosmosa</i>                               |                                    |                                |                 |                                                                    |                                                                        |
| BIFR        | <i>Bidens frondosa</i>                                      | <i>Bidens frondosa</i>                              | FACW, FACW (+)                     | FACW                           |                 |                                                                    |                                                                        |
| BLTR        | <i>Blepharoneuron tricholepis</i>                           | <i>Blepharoneuron tricholepis</i>                   |                                    |                                |                 |                                                                    |                                                                        |
| BOCO2       | <i>Boerhavia coulteri</i>                                   | <i>Boerhavia coulteri</i>                           |                                    |                                |                 |                                                                    |                                                                        |
| BOMU        | <i>Botrychium multifidum</i>                                | <i>Botrychium multifidum</i> subsp. <i>coulteri</i> | FACU, FAC                          | FAC                            |                 |                                                                    |                                                                        |
| BOAR        | <i>Bouteloua aristoides</i>                                 | <i>Bouteloua aristoides</i>                         |                                    |                                |                 |                                                                    |                                                                        |
| BOBA2       | <i>Bouteloua barbata</i>                                    | <i>Bouteloua barbata</i>                            |                                    |                                |                 |                                                                    |                                                                        |
| BOCU        | <i>Bouteloua curtipendula</i>                               | <i>Bouteloua curtipendula</i>                       |                                    |                                | Y               | Eddleman (1984)                                                    | Did well on revegetated mined-soils                                    |
| BOER4       | <i>Bouteloua eriopoda</i>                                   | <i>Bouteloua eriopoda</i>                           |                                    |                                |                 |                                                                    |                                                                        |
| BOGR2       | <i>Bouteloua gracilis</i>                                   | <i>Bouteloua gracilis</i>                           |                                    |                                | Y               | Brand & Goetz (1986); Tierney & Foxx (1982)                        | Does poorly on ungrazed land; Important species on waste disposal site |
| BOHI2       | <i>Bouteloua hirsuta</i>                                    | <i>Bouteloua hirsuta</i>                            |                                    |                                |                 |                                                                    |                                                                        |
| BOSI2       | <i>Bouteloua simplex</i>                                    | <i>Bouteloua simplex</i>                            |                                    |                                |                 |                                                                    |                                                                        |

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|-------------|---------------------------------|----------------------------------|------------------------------------|--------------------------------|-----------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| BRJU        | <i>Brassica juncea</i>          | <i>Brassica juncea</i>           |                                    |                                |                 |                                                             |                                                                                                                    |
| BRNI        | <i>Brassica nigra</i>           | <i>Brassica nigra</i>            |                                    |                                |                 |                                                             |                                                                                                                    |
| BRBE        | <i>Brickellia betonicifolia</i> | <i>Brickellia betonicaefolia</i> |                                    |                                |                 |                                                             |                                                                                                                    |
| BRBR2       | <i>Brickellia brachyphylla</i>  | <i>Brickellia brachyphylla</i>   |                                    |                                |                 |                                                             |                                                                                                                    |
| BRCA3       | <i>Brickellia californica</i>   | <i>Brickellia californica</i>    | Upland, FAC                        | FACU (+)                       |                 |                                                             |                                                                                                                    |
| BRFE        | <i>Brickellia fendleri</i>      | <i>Brickellia fendleri</i>       |                                    |                                |                 |                                                             |                                                                                                                    |
| BRGR        | <i>Brickellia grandiflora</i>   | <i>Brickellia grandiflora</i>    |                                    |                                |                 |                                                             |                                                                                                                    |
| BRAN        | <i>Bromus anomalus</i>          | <i>Bromus anomalus</i>           |                                    |                                | Y               | Eddleman (1984)                                             | Did well on revegetated mined-soils                                                                                |
| BRCA6       | <i>Bromus catharticus</i>       | <i>Bromus catharticus</i>        |                                    |                                |                 |                                                             |                                                                                                                    |
| BRCI2       | <i>Bromus ciliatus</i>          | <i>Bromus ciliatus</i>           | FACU, FACW                         | FAC                            |                 |                                                             |                                                                                                                    |
| BRFR2       | <i>Bromus frondosus</i>         | <i>Bromus frondosus</i>          |                                    |                                |                 |                                                             |                                                                                                                    |
| BRIN2       | <i>Bromus inermis</i>           | <i>Bromus inermis</i>            | UPL, FACU, FAC                     |                                | Y               | Jastrow et al. (1984b); Sindelar (1984)                     | Indicator of some acidic waste materials from mineral extraction; Did well under drought conditions on mined lands |
| BRJA        | <i>Bromus japonicus</i>         | <i>Bromus japonicus</i>          | Upland, FACU                       | FACU                           |                 |                                                             |                                                                                                                    |
| BRLA6       | <i>Bromus lanatipes</i>         | <i>Bromus lanatipes</i>          |                                    |                                | Y               | Eddleman (1984)                                             | Did poorly on revegetated mined-soils                                                                              |
| BRMA4       | <i>Bromus marginatus</i>        | <i>Bromus marginatus</i>         |                                    |                                |                 |                                                             |                                                                                                                    |
| BRKA2       | <i>Bromus kalmii</i>            | <i>Bromus purgans</i>            |                                    |                                |                 |                                                             |                                                                                                                    |
| BRTE        | <i>Bromus tectorum</i>          | <i>Bromus tectorum</i>           |                                    |                                | Y               | Koniak (1985); Allen & Knight (1984); Tierney & Foxx (1982) | Dominant in early-mid succession; Dominant colonizing weed; Important species on waste disposal site               |
| BUDA        | <i>Buchloe dactyloides</i>      | <i>Buchloe dactyloides</i>       |                                    |                                |                 |                                                             |                                                                                                                    |
| CAGU        | <i>Calochortus gunnisonii</i>   | <i>Calochortus gunnisonii</i>    |                                    |                                |                 |                                                             |                                                                                                                    |
| CANU3       | <i>Calochortus nuttallii</i>    | <i>Calochortus nuttallii</i>     |                                    |                                | Y               | Eddleman (1984)                                             | Did poorly on revegetated mined-soils                                                                              |
| CAHA14      | <i>Calylophus hartwegii</i>     | <i>Calylophus hartwegii</i>      |                                    |                                |                 |                                                             |                                                                                                                    |
| CABU        | <i>Calypso bulbosa</i>          | <i>Calypso bulbosa</i>           | FACU, FACW                         | FAC                            |                 |                                                             |                                                                                                                    |
| CAMI2       | <i>Camelina microcarpa</i>      | <i>Camelina microcarpa</i>       |                                    |                                |                 |                                                             |                                                                                                                    |
| CAPA10      | <i>Campanula parryi</i>         | <i>Campanula parryi</i>          | FACU, FAC                          | FAC (-)                        |                 |                                                             |                                                                                                                    |
| CARO2       | <i>Campanula rotundifolia</i>   | <i>Campanula rotundifolia</i>    | Upland, FAC                        | FAC                            | Y               | Eddleman (1984)                                             | Did poorly on revegetated mined-soils                                                                              |
| CABU2       | <i>Capsella bursa-pastoris</i>  | <i>Capsella bursa-pastoris</i>   | FACU, FAC                          | FAC                            |                 |                                                             |                                                                                                                    |
| CACO6       | <i>Cardamine cordifolia</i>     | <i>Cardamine cordifolia</i>      | FACW, OBLW                         | OBLW                           |                 |                                                             |                                                                                                                    |
| CADR        | <i>Cardaria draba</i>           | <i>Cardaria draba</i>            |                                    |                                |                 |                                                             |                                                                                                                    |

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| CANU4       | <i>Carduus nutans</i>                          | <i>Carduus nutans</i>           |                                    |                                |                 |                        |                                    |
| CAAQ        | <i>Carex aquatilis</i>                         | <i>Carex aquatilis</i>          | OBLW                               | OBLW                           |                 |                        |                                    |
| CABE3       | <i>Carex bella</i>                             | <i>Carex bella</i>              | FACU, FAC (-)                      | FACU                           |                 |                        |                                    |
| CABO2       | <i>Carex bolanderi</i>                         | <i>Carex bolanderi</i>          | FAC, FACW                          | Not Indicated                  |                 |                        |                                    |
| CABR10      | <i>Carex brevior</i>                           | <i>Carex brevior</i>            | Upland, OBLW                       | OBLW                           |                 |                        |                                    |
| CACA11      | <i>Carex canescens</i>                         | <i>Carex canescens</i>          | FACW(+), OBLW                      | OBLW                           |                 |                        |                                    |
| CADO2       | <i>Carex douglasii</i>                         | <i>Carex douglasii</i>          | FACU, FAC                          | FAC                            |                 |                        |                                    |
| CADU6       | <i>Carex duriuscula</i>                        | <i>Carex eleocharis</i>         |                                    |                                |                 |                        |                                    |
| CAMI7       | <i>Carex microptera</i>                        | <i>Carex festivella</i>         |                                    |                                |                 |                        |                                    |
| CAFO3       | <i>Carex foenea</i>                            | <i>Carex foenea</i>             | FACW (+) (?)                       | Not indicated                  |                 |                        |                                    |
| CAGE        | <i>Carex geophila</i>                          | <i>Carex geophila</i>           |                                    |                                |                 |                        |                                    |
| CAHY4       | <i>Carex hystericina</i>                       | <i>Carex hystericina</i>        | OBLW                               | OBLW                           |                 |                        |                                    |
| CAIN11      | <i>Carex interior</i>                          | <i>Carex interior</i>           | FACW (-), OBLW                     | OBLW                           |                 |                        |                                    |
| CALA30      | <i>Carex lanuginosa</i>                        | <i>Carex lanuginosa</i>         | OBLW                               | OBLW                           |                 |                        |                                    |
| CANE2       | <i>Carex nebraskensis</i>                      | <i>Carex nebraskensis</i>       | OBLW                               | OBLW                           |                 |                        |                                    |
| CAOC2       | <i>Carex occidentalis</i>                      | <i>Carex occidentalis</i>       |                                    |                                |                 |                        |                                    |
| CAPR5       | <i>Carex praegracilis</i>                      | <i>Carex praegracilis</i>       | FACW (-), FACW (+)                 | FACW (+)                       |                 |                        |                                    |
| CASC11      | <i>Carex scoparia</i>                          | <i>Carex scoparia</i>           | FACW                               | FACW                           |                 |                        |                                    |
| CAST5       | <i>Carex stipata</i>                           | <i>Carex stipata</i>            | OBL                                | OBL                            |                 |                        |                                    |
| CAXE        | <i>Carex xerantica</i>                         | <i>Carex xerantica</i>          |                                    |                                |                 |                        |                                    |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>  | <i>Castilleja confusa</i>       |                                    |                                |                 |                        |                                    |
| CAIN14      | <i>Castilleja integra</i>                      | <i>Castilleja integra</i>       |                                    |                                |                 |                        |                                    |
| CALI4       | <i>Castilleja linariifolia</i>                 | <i>Castilleja linariaefolia</i> |                                    |                                |                 |                        |                                    |
| CALI5       | <i>Castilleja lineata</i>                      | <i>Castilleja lineata</i>       | FACW                               | FACW                           |                 |                        |                                    |
| CAMI12      | <i>Castilleja miniata</i>                      | <i>Castilleja miniata</i>       | FACU, FACW                         | FACU                           |                 |                        |                                    |
| CAMI13      | <i>Castilleja minor</i>                        | <i>Castilleja minor</i>         | OBLW                               | OBLW                           |                 |                        |                                    |
| CARH4       | <i>Castilleja rhexiifolia</i>                  | <i>Castilleja rhexifolia</i>    | FACU, FAC                          | FAC                            |                 |                        |                                    |
| CEFE        | <i>Ceanothus fendleri</i>                      | <i>Ceanothus fendleri</i>       |                                    |                                |                 |                        |                                    |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i> | <i>Celtis reticulata</i>        | Upland, FACW                       | FACU                           |                 |                        |                                    |
| CEEC        | <i>Cenchrus echinatus</i>                      | <i>Cenchrus echinatus</i>       |                                    |                                |                 |                        |                                    |
| CEIN4       | <i>Cenchrus incertus</i>                       | <i>Cenchrus pauciflorus</i>     |                                    |                                |                 |                        |                                    |
| CECA3       | <i>Centaureum calycosum</i>                    | <i>Centaureum calycosum</i>     | FACW (-), FACW (+)                 | FACW (+)                       |                 |                        |                                    |
| CEAR4       | <i>Cerastium arvense</i>                       | <i>Cerastium arvense</i>        | Upland, FACW                       | FACW                           |                 |                        |                                    |
| CEBR3       | <i>Cerastium brachypodum</i>                   | <i>Cerastium brachypodum</i>    | FACU (-), FAC                      | FACU                           |                 |                        |                                    |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>  | <i>Cerastium vulgatum</i>       | FACU (-), FAC (-)                  | FACU (-)                       |                 |                        |                                    |

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|-------------|-----------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------|--------------------------------|-----------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>                      | <i>Cercocarpus montanus</i> var. <i>montanus</i>          |                                    |                                |                 |                                                              |                                                                                    |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>                 | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>     |                                    |                                |                 |                                                              |                                                                                    |
| CHCO        | <i>Chamaesaracha coniodes</i>                                         | <i>Chamaesaracha conioides</i>                            |                                    |                                |                 |                                                              |                                                                                    |
| CHCO2       | <i>Chamaesaracha coronopus</i>                                        | <i>Chamaesaracha coronpus</i>                             |                                    |                                |                 |                                                              |                                                                                    |
| CHFE        | <i>Cheilanthes feei</i>                                               | <i>Cheilanthes feei</i>                                   |                                    |                                |                 |                                                              |                                                                                    |
| CHFE2       | <i>Cheilanthes fendleri</i>                                           | <i>Cheilanthes fendleri</i>                               |                                    |                                |                 |                                                              |                                                                                    |
| CHTO2       | <i>Cheilanthes tomentosa</i>                                          | <i>Cheilanthes tomentosa</i>                              |                                    |                                |                 |                                                              |                                                                                    |
| CHEA        | <i>Cheilanthes eatonii</i>                                            | <i>Cheilanthus eatonii</i>                                |                                    |                                |                 |                                                              |                                                                                    |
| CHAL6       | <i>Chenopodium albescens</i>                                          | <i>Chenopodium albescens</i>                              |                                    |                                |                 |                                                              |                                                                                    |
| CHAL7       | <i>Chenopodium album</i>                                              | <i>Chenopodium album</i>                                  | FAC, FACU                          | FAC(-)                         | Y               | Monk (1983); Carson & Barrett (1988); Miller & Werner (1987) | Dominant in early succession; same; Present in early succession, but a subordinate |
| CHBE4       | <i>Chenopodium berlandieri</i>                                        | <i>Chenopodium berlandieri</i>                            |                                    |                                |                 |                                                              |                                                                                    |
| CHCA4       | <i>Chenopodium capitatum</i>                                          | <i>Chenopodium capitatum</i>                              |                                    |                                |                 |                                                              |                                                                                    |
| CHCY        | <i>Chenopodium cycloides</i>                                          | <i>Chenopodium cycloides</i>                              |                                    |                                |                 |                                                              |                                                                                    |
| CHDE        | <i>Chenopodium desiccatum</i>                                         | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>      |                                    |                                |                 |                                                              |                                                                                    |
| CHPR5       | <i>Chenopodium pratericola</i>                                        | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i> |                                    |                                |                 |                                                              |                                                                                    |
| CHFR3       | <i>Chenopodium fremontii</i>                                          | <i>Chenopodium fremontii</i>                              |                                    |                                |                 |                                                              |                                                                                    |
| CHSI2       | <i>Chenopodium simplex</i>                                            | <i>Chenopodium gigantospermum</i>                         |                                    |                                |                 |                                                              |                                                                                    |
| CHGL3       | <i>Chenopodium glaucum</i>                                            | <i>Chenopodium glaucum</i>                                | FAC, FACW                          | FAC                            |                 |                                                              |                                                                                    |
| CHGR2       | <i>Chenopodium graveolens</i>                                         | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>    |                                    |                                |                 |                                                              |                                                                                    |
| CHIN2       | <i>Chenopodium incanum</i>                                            | <i>Chenopodium incanum</i>                                |                                    |                                |                 |                                                              |                                                                                    |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                       | <i>Chenopodium leptophyllum</i>                           | Upland, FAC                        | FACU                           |                 |                                                              |                                                                                    |
| CHRU        | <i>Chenopodium rubrum</i>                                             | <i>Chenopodium rubrum</i>                                 | FACW, OBLW                         | Not Indicated                  |                 |                                                              |                                                                                    |
| CHWA        | <i>Chenopodium watsonii</i>                                           | <i>Chenopodium watsonii</i>                               |                                    |                                |                 |                                                              |                                                                                    |
| CHUM        | <i>Chimaphila umbellata</i>                                           | <i>Chimaphila umbellata</i>                               |                                    |                                | Y               | Klinka et al. (1989)                                         | Characteristic of moisture-deficient sites                                         |
| CHVI4       | <i>Chloris virgata</i>                                                | <i>Chloris virgata</i>                                    |                                    |                                |                 |                                                              |                                                                                    |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                        | <i>Chrysopsis villosa</i>                                 |                                    |                                | Y               | Eddleman (1984); Tierney & Foxx (1982)                       | Did well on revegetated mined-soils; Important species on waste disposal site      |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i> | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>    |                                    |                                | Y               | Koniak (1985)                                                | Dominant in early-mid succession                                                   |

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|-------------|------------------------------------------------|-------------------------------------------------------|------------------------------------|--------------------------------|-----------------|--------------------------------------|--------------------------------------------------------------------------|
| DAPO3       | <i>Dalea polygonoides</i>                      | <i>Dalea polygonoides</i>                             |                                    |                                |                 |                                      |                                                                          |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>     | <i>Dalea terminalis</i>                               |                                    |                                |                 |                                      |                                                                          |
| DAIN        | <i>Danthonia intermedia</i>                    | <i>Danthonia intermedia</i>                           | FACU, FAC                          | FAC (-)                        | Y               | Klinka et al. (1989)                 | Characteristic of moisture-deficient sites                               |
| DAPA2       | <i>Danthonia parryi</i>                        | <i>Danthonia parryi</i>                               |                                    |                                |                 |                                      |                                                                          |
| DASP2       | <i>Danthonia spicata</i>                       | <i>Danthonia spicata</i>                              |                                    |                                | Y               | Eddleman (1984)                      | Did well on revegetated mined-soils                                      |
| DAWR2       | <i>Datura wrightii</i>                         | <i>Datura meteloides</i>                              |                                    |                                |                 |                                      |                                                                          |
| DEOC        | <i>Delphinium X occidentale</i>                | <i>Delphinium occidentale</i>                         |                                    |                                |                 |                                      |                                                                          |
| DEWO        | <i>Delphinium wootonii</i>                     | <i>Delphinium virescens</i> subsp. <i>wootonii</i>    |                                    |                                |                 |                                      |                                                                          |
| DECE        | <i>Deschampsia cespitosa</i>                   | <i>Deschampsia caespitosa</i>                         | FAC, FACW (+)                      | FACW (-)                       | Y               | Russell (1985); Klinka et al. (1989) | Frequent occurrence on revegetated coal-mines; Common on disturbed sites |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>   | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>        |                                    |                                |                 |                                      |                                                                          |
| DEPI        | <i>Descurainia pinnata</i>                     | <i>Descurainia pinnata</i>                            |                                    |                                |                 |                                      |                                                                          |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>   | <i>Descurainia richardsonii</i>                       |                                    |                                |                 |                                      |                                                                          |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>   | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>  |                                    |                                |                 |                                      |                                                                          |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>  | <i>Descurainia richardsonii</i> subsp. <i>procera</i> |                                    |                                |                 |                                      |                                                                          |
| DESO2       | <i>Descurainia sophia</i>                      | <i>Descurainia sophia</i>                             |                                    |                                | Y               | Hessing & Johnson (1982)             | Pioneer species on roadside                                              |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>  | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i> |                                    |                                |                 |                                      |                                                                          |
| DISP        | <i>Distichlis spicata</i>                      | <i>Distichlis spicata</i>                             | FAC (+), FACW (+)                  | FACW                           |                 |                                      |                                                                          |
| DISP        | <i>Distichlis spicata</i>                      | <i>Distichlis stricta</i>                             |                                    |                                |                 |                                      |                                                                          |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                 | <i>Dithyrea wislizenii</i>                            |                                    |                                |                 |                                      |                                                                          |
| DOAL        | <i>Dodecatheon alpinum</i>                     | <i>Dodecatheon alpinum</i>                            |                                    |                                |                 |                                      |                                                                          |
| DOPU        | <i>Dodecatheon pulchellum</i>                  | <i>Dodecatheon pulchellum</i>                         | FAC, FACW                          | FACW                           |                 |                                      |                                                                          |
| DRAU        | <i>Draba aurea</i>                             | <i>Draba aurea</i> var. <i>aurea</i>                  | FAC, FACW                          | FACW                           | Y               | Russell (1985)                       | Frequent occurrence on revegetated coal-mines                            |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i> | <i>Draba helleriana</i> var. <i>helleriana</i>        | FACU, FAC                          | FACU                           |                 |                                      |                                                                          |
| DRRE        | <i>Draba rectifracta</i>                       | <i>Draba rectifracta</i>                              |                                    |                                |                 |                                      |                                                                          |
| DRRE2       | <i>Draba reptans</i>                           | <i>Draba reptans</i>                                  |                                    |                                |                 |                                      |                                                                          |
| DRSP        | <i>Draba spectabilis</i>                       | <i>Draba spectabilis</i>                              | FACU (-)                           | Not Indicated                  |                 |                                      |                                                                          |
| DRFI2       | <i>Dryopteris filix-mas</i>                    | <i>Dryopteris filix-mas</i>                           |                                    |                                |                 |                                      |                                                                          |
| DYPA        | <i>Dyssodia papposa</i>                        | <i>Dyssodia papposa</i>                               |                                    |                                |                 |                                      |                                                                          |

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------|--------------------------------|-----------------|--------------------------------------|----------------------------------------------------------------------------------|
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        |                                    |                                |                 |                                      |                                                                                  |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    |                                    |                                |                 |                                      |                                                                                  |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> |                                    |                                |                 |                                      |                                                                                  |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   |                                    |                                |                 |                                      |                                                                                  |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       |                                    |                                |                 |                                      |                                                                                  |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    | FAC (+), FACW                      | Not Indicated                  |                 |                                      |                                                                                  |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   | FACW, FACW (+)                     | FACW                           |                 |                                      |                                                                                  |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  | OBLW                               | OBLW                           |                 |                                      |                                                                                  |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        | FACU, FAC (+)                      | FAC                            | Y               | Eddleman (1984)                      | Did well on revegetated mined-soils                                              |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           | FACU                               | FACU                           |                 |                                      |                                                                                  |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        | FAC, FACW                          | FACW                           |                 |                                      |                                                                                  |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        |                                    |                                |                 |                                      |                                                                                  |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                      | <i>Ephedra viridis</i> var. <i>viridis</i>                      |                                    |                                | Y               | Koniak (1985)                        | Dominant in mid succession                                                       |
| EPAN2       | <i>Epilobium angustifolium</i>                                  | <i>Epilobium angustifolium</i>                                  | FACU, FAC                          | FAC                            |                 |                                      |                                                                                  |
| EPCI        | <i>Epilobium ciliatum</i>                                       | <i>Epilobium ciliatum</i>                                       | FACU, OBLW                         | FACW                           |                 |                                      |                                                                                  |
| EPOR2       | <i>Epilobium oregonense</i>                                     | <i>Epilobium oregonense</i>                                     |                                    |                                |                 |                                      |                                                                                  |
| EPBR3       | <i>Epilobium brachycarpum</i>                                   | <i>Epilobium paniculatum</i>                                    |                                    |                                |                 |                                      |                                                                                  |
| EPGI        | <i>Epipactis gigantea</i>                                       | <i>Epipactis gigantea</i>                                       | FACW (+), OBLW                     | OBLW                           |                 |                                      |                                                                                  |
| EQAR        | <i>Equisetum arvense</i>                                        | <i>Equisetum arvense</i>                                        | FACU, FACW (-)                     | FACW (-)                       | Y               | Russell (1985); Klinka et al. (1989) | Frequent occurrence on revegetated coal-mines; Characteristic of disturbed sites |
| EQHY        | <i>Equisetum hyemale</i>                                        | <i>Equisetum hiemale</i>                                        |                                    |                                |                 |                                      |                                                                                  |
| EQLA        | <i>Equisetum laevigatum</i>                                     | <i>Equisetum laevigatum</i>                                     | FAC, FACW                          | FACW                           |                 |                                      |                                                                                  |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>              | <i>Eragrostis arida</i>                                         |                                    |                                |                 |                                      |                                                                                  |
| ERBA2       | <i>Eragrostis barrelieri</i>                                    | <i>Eragrostis barrelieri</i>                                    |                                    |                                |                 |                                      |                                                                                  |
| ERCI        | <i>Eragrostis cilianensis</i>                                   | <i>Eragrostis cilianensis</i>                                   | FACU, FACU (+)                     | FACU (+)                       |                 |                                      |                                                                                  |
| ERCU2       | <i>Eragrostis curvula</i>                                       | <i>Eragrostis curvula</i>                                       |                                    |                                | Y               | Beley et al. (1982)                  | Invades transmission-line construction sites                                     |
| ERHY        | <i>Eragrostis hypnoides</i>                                     | <i>Eragrostis hypnoides</i>                                     | FAC, OBLW                          | Not Indicated                  |                 |                                      |                                                                                  |
| ERPE        | <i>Eragrostis pectinacea</i>                                    | <i>Eragrostis pectinacea</i>                                    | FACU, FAC                          | FAC                            |                 |                                      |                                                                                  |
| ERTR3       | <i>Eragrostis trichodes</i>                                     | <i>Eragrostis trichodes</i>                                     |                                    |                                |                 |                                      |                                                                                  |
| ERCA4       | <i>Erigeron canus</i>                                           | <i>Erigeron canus</i>                                           |                                    |                                |                 |                                      |                                                                                  |

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|-------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------|--------------------------------|-----------------|--------------------------------------------------|--------------------------------------------------------------------------|
| ERDI4       | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               |                                    |                                | Y               | Tierney & Foxx (1982)                            | Important species on waste disposal site                                 |
| EREL9       | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 | FAC, FACW                          | FACW                           |                 |                                                  |                                                                          |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             | FACU, FAC(-)                       | FAC(-)                         | Y               | Tierney & Foxx (1982)                            | Important species on waste disposal site                                 |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | Upland, FAC                        | FAC                            |                 |                                                  |                                                                          |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus</i> <i>viscidus</i>           | Upland, FAC                        | FAC                            |                 |                                                  |                                                                          |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              |                                    |                                |                 |                                                  |                                                                          |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  | FACW                               | FACW                           |                 |                                                  |                                                                          |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          | FACU, OBLW                         | NA                             |                 |                                                  |                                                                          |
| ERVVR       | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            |                                    |                                |                 |                                                  |                                                                          |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinus</i>          | <i>Erigeron pumilus</i> subsp. <i>concinoides</i>       |                                    |                                |                 |                                                  |                                                                          |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              |                                    |                                |                 |                                                  |                                                                          |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 |                                    |                                |                 |                                                  |                                                                          |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        |                                    |                                |                 |                                                  |                                                                          |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            |                                    |                                |                 |                                                  |                                                                          |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                |                                    |                                |                 |                                                  |                                                                          |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               |                                    |                                |                 |                                                  |                                                                          |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                |                                    |                                |                 |                                                  |                                                                          |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               |                                    |                                |                 |                                                  |                                                                          |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             |                                    |                                |                 |                                                  |                                                                          |
| ERAL4       | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 |                                    |                                |                 |                                                  |                                                                          |
| ERAN4       | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 |                                    |                                |                 |                                                  |                                                                          |
| ERCE2       | <i>Eriogonum cernuum</i>                                | <i>Eriogonum cernuum</i>                                |                                    |                                |                 |                                                  |                                                                          |
| EREF        | <i>Eriogonum effusum</i>                                | <i>Eriogonum effusum</i>                                |                                    |                                |                 |                                                  |                                                                          |
| ERJA        | <i>Eriogonum jamesii</i>                                | <i>Eriogonum jamesii</i>                                |                                    |                                |                 |                                                  |                                                                          |
| ERLE9       | <i>Eriogonum leptocladon</i>                            | <i>Eriogonum leptocladon</i>                            |                                    |                                |                 |                                                  |                                                                          |
| ERPO4       | <i>Eriogonum polycladon</i>                             | <i>Eriogonum polycladon</i>                             |                                    |                                |                 |                                                  |                                                                          |
| ERRA3       | <i>Eriogonum racemosum</i>                              | <i>Eriogonum racemosum</i>                              |                                    |                                |                 |                                                  |                                                                          |
| ERIC6       | <i>Erodium cicutarium</i>                               | <i>Erodium cicutarium</i>                               |                                    |                                | Y               | Hessing & Johnson (1982); Ditsword et al. (1982) | Climax species on roadside; Invades transmission-line construction sites |

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|-------------|-----------------------------------------------------------|---------------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|------------------------------------|
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>           | <i>Erysimum asperum</i>                           |                                    |                                |                 |                        |                                    |
| ERCA14      | <i>Erysimum capitatum</i>                                 | <i>Erysimum capitatum</i>                         |                                    |                                |                 |                        |                                    |
| ERIN7       | <i>Erysimum inconspicuum</i>                              | <i>Erysimum inconspicuum</i>                      |                                    |                                |                 |                        |                                    |
| ERHE7       | <i>Erythronium hendersonii</i>                            | <i>Eupatorium herbaceum</i>                       |                                    |                                |                 |                        |                                    |
| CHAL11      | <i>Chamaesyce albomarginata</i>                           | <i>Euphorbia albomarginata</i>                    |                                    |                                |                 |                        |                                    |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i>                          |                                    |                                |                 |                        |                                    |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>  |                                    |                                |                 |                        |                                    |
| EUEX4       | <i>Euphorbia exstipulata</i>                              | <i>Euphorbia exstipulata</i>                      |                                    |                                |                 |                        |                                    |
| CHFE3       | <i>Chamaesyce fendleri</i>                                | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    |                                    |                                |                 |                        |                                    |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>               | <i>Euphorbia geyeri</i>                           |                                    |                                |                 |                        |                                    |
| EULU        | <i>Euphorbia lurida</i>                                   | <i>Euphorbia lurida</i>                           |                                    |                                |                 |                        |                                    |
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> |                                    |                                |                 |                        |                                    |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      |                                    |                                |                 |                        |                                    |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         |                                    |                                |                 |                        |                                    |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          |                                    |                                |                 |                        |                                    |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    |                                    |                                |                 |                        |                                    |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             |                                    |                                |                 |                        |                                    |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                          |                                    |                                |                 |                        |                                    |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                          |                                    |                                |                 |                        |                                    |
| FERUR       | <i>Fendleri rupicola</i> var. <i>rupicola</i>             | <i>Fendleri rupicola</i> var. <i>rupicola</i>     |                                    |                                |                 |                        |                                    |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                          |                                    |                                |                 |                        |                                    |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                            |                                    |                                |                 |                        |                                    |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                          |                                    |                                |                 |                        |                                    |
| FEOV        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                              |                                    |                                |                 |                        |                                    |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                            |                                    |                                |                 |                        |                                    |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                           |                                    |                                |                 |                        |                                    |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                     | FACU, FAC (+)                      | FACU                           |                 |                        |                                    |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>               | <i>Fragaria americana</i>                         |                                    |                                |                 |                        |                                    |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>         | <i>Fragaria ovalis</i>                            |                                    |                                |                 |                        |                                    |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                        | <i>Franseria acanthicarpa</i>                     |                                    |                                |                 |                        |                                    |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                         | <i>Franseria confertiflora</i>                    |                                    |                                |                 |                        |                                    |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                       | <i>Gaillardia pinnatifida</i>                     |                                    |                                |                 |                        |                                    |



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|-------------|---------------------------------------------------|--------------------------------------------------|------------------------------------|--------------------------------|-----------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| GAAP2       | <i>Galium aparine</i> L.                          | <i>Galium aparine</i>                            | FACU, FAC (-)                      | FACU                           | Y               | Leps & Stursa (1989); Klinka et al. (1989)                   | Dominant in early succession [in Czechoslovakia]; Common on disturbed sites               |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>aspermum</i>      | <i>Galium aspermum</i>                           |                                    |                                |                 |                                                              |                                                                                           |
| GABO2       | <i>Galium boreale</i>                             | <i>Galium boreale</i>                            | FACU, FAC                          | FAC (-)                        |                 |                                                              |                                                                                           |
| GAFE        | <i>Galium fendleri</i>                            | <i>Galium fendleri</i>                           |                                    |                                |                 |                                                              |                                                                                           |
| GAMI        | <i>Galium microphyllum</i>                        | <i>Galium microphyllum</i>                       |                                    |                                |                 |                                                              |                                                                                           |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>    | <i>Galium tinctorum</i> var. <i>subbiflorum</i>  |                                    |                                |                 |                                                              |                                                                                           |
| GACO5       | <i>Gaura coccinea</i>                             | <i>Gaura coccinea</i>                            |                                    |                                | Y               | Ditsword et al. (1982); Beley et al. (1982); Eddleman (1984) | Invades transmission-line construction sites; Same; Did poorly on revegetated mined-soils |
| GAPA6       | <i>Gaura parviflora</i>                           | <i>Gaura parviflora</i>                          | FACU (?)                           | Not Indicated                  |                 |                                                              |                                                                                           |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana affinis</i>                          | FACU                               | FACU                           |                 |                                                              |                                                                                           |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana bigelovii</i>                        |                                    |                                |                 |                                                              |                                                                                           |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana plebeia</i>                          |                                    |                                |                 |                                                              |                                                                                           |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana strictiflora</i>                     |                                    |                                |                 |                                                              |                                                                                           |
| GECA3       | <i>Geranium caespitosum</i>                       | <i>Geranium caespitosum</i>                      |                                    |                                | Y               | Reichardt (1982)                                             | Dominant in mid succession                                                                |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i> | <i>Geranium fremontii</i>                        |                                    |                                |                 |                                                              |                                                                                           |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>    | <i>Geranium fremontii</i> var. <i>parryi</i>     |                                    |                                |                 |                                                              |                                                                                           |
| GERI        | <i>Geranium richardsonii</i>                      | <i>Geranium richardsonii</i>                     | FACU, FACW                         | FAC                            |                 |                                                              |                                                                                           |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>   | <i>Geum macrophyllum</i> var. <i>perincisum</i>  |                                    |                                | Y               | Klinka et al. (1989)                                         | Characteristic of disturbed sites                                                         |
| GERI2       | <i>Geum rivale</i>                                | <i>Geum rivale</i>                               | FAC, OBLW                          | FAC                            |                 |                                                              |                                                                                           |
| GEAL3       | <i>Geum aleppicum</i>                             | <i>Geum strictum</i> var. <i>strictum</i>        |                                    |                                |                 |                                                              |                                                                                           |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>        | <i>Geum triflorum</i> var. <i>ciliatum</i>       | Upland, FAC                        | FAC                            | Y               | Eddleman (1984)                                              | Did well on revegetated mined-soils                                                       |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>    | <i>Gilia flavocincta</i> subsp. <i>australis</i> |                                    |                                |                 |                                                              |                                                                                           |
| GILE3       | <i>Gilia leptomeria</i>                           | <i>Gilia leptomeria</i>                          |                                    |                                |                 |                                                              |                                                                                           |
| GIPI        | <i>Gilia pinnatifida</i>                          | <i>Gilia pinnatifida</i>                         |                                    |                                |                 |                                                              |                                                                                           |
| GLBO        | <i>Glyceria borealis</i>                          | <i>Glyceria borealis</i>                         | OBLW                               | OBLW                           |                 |                                                              |                                                                                           |

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|-------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------|--------------------------------|-----------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| GLGR        | <i>Glyceria grandis</i>                                                           | <i>Glyceria grandis</i>                                |                                    |                                |                 |                                                                             |                                                                                                                  |
| GLST        | <i>Glyceria striata</i>                                                           | <i>Glyceria striata</i>                                | OBLW                               | OBLW                           |                 |                                                                             |                                                                                                                  |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                                                       | <i>Glycyrrhiza lepidota</i>                            | Upland, FAC (+)                    | FAC (+)                        |                 |                                                                             |                                                                                                                  |
| PSST7       | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             | FAC (-), FAC (+)                   | FAC                            |                 |                                                                             |                                                                                                                  |
| PSST7       | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             |                                    |                                |                 |                                                                             |                                                                                                                  |
| GNEX        | <i>Gnaphalium exilifolium</i>                                                     | <i>Gnaphalium grayi</i>                                | FAC                                | FAC                            |                 |                                                                             |                                                                                                                  |
| PSMA11      | <i>Pseudognaphalium macounii</i>                                                  | <i>Gnaphalium macounii</i>                             |                                    |                                |                 |                                                                             |                                                                                                                  |
| GNPA        | <i>Gnaphalium palustre</i>                                                        | <i>Gnaphalium palustre</i>                             | FAC (+), OBLW                      | FACW                           |                 |                                                                             |                                                                                                                  |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i>                           | <i>Gnaphalium wrightii</i>                             |                                    |                                |                 |                                                                             |                                                                                                                  |
| GOOB2       | <i>Goodyera oblongifolia</i>                                                      | <i>Goodyera oblongifolia</i>                           | Upland, FACU                       | FACU                           |                 |                                                                             |                                                                                                                  |
| GORE2       | <i>Goodyera repens</i>                                                            | <i>Goodyera repens</i>                                 | Upland, FACW                       | FACW                           |                 |                                                                             |                                                                                                                  |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>                                      | <i>Grindelia aphanactis</i>                            |                                    |                                |                 |                                                                             |                                                                                                                  |
| GRFA        | <i>Grindelia fastigiata</i>                                                       | <i>Grindelia fastigiata</i>                            |                                    |                                |                 |                                                                             |                                                                                                                  |
| GRSQ        | <i>Grindelia squarrosa</i>                                                        | <i>Grindelia squarrosa</i>                             | Upland, FACU                       | FACU                           | Y               | Eddleman (1984)                                                             | Did poorly on revegetated mined-soils                                                                            |
| GUMI        | <i>Gutierrezia microcephala</i>                                                   | <i>Gutierrezia microcephala</i>                        |                                    |                                | Y               | Tierney & Foxx (1982)                                                       | Important species on waste disposal site                                                                         |
| GUSA2       | <i>Gutierrezia sarothrae</i>                                                      | <i>Gutierrezia sarothrae</i>                           |                                    |                                | Y               | Fisher et al. (1990); Chew (1982); Reichardt (1982); Roundy & Jordan (1988) | A good invader of mined lands; Does well in grazed land; Dominant in mid succession; Recolonizes disturbed sites |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>                              | <i>Habenaria hyperborea</i>                            |                                    |                                |                 |                                                                             |                                                                                                                  |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>                            | <i>Habenaria sparsiflora</i>                           |                                    |                                |                 |                                                                             |                                                                                                                  |
| HAFL2       | <i>Hackelia floribunda</i>                                                        | <i>Hackelia floribunda</i>                             | FACU (-), FAC                      | FACU (+)                       |                 |                                                                             |                                                                                                                  |
| HABE3       | <i>Hackelia besseyi</i>                                                           | <i>Hackelia grisea</i>                                 |                                    |                                |                 |                                                                             |                                                                                                                  |
| HAPI2       | <i>Hackelia pinetorum</i>                                                         | <i>Hackelia pinetorum</i>                              |                                    |                                |                 |                                                                             |                                                                                                                  |
| PYCRC       | <i>Pyrocoma crocea</i> var. <i>crocea</i>                                         | <i>Haplopappus croceus</i>                             |                                    |                                |                 |                                                                             |                                                                                                                  |
| MAGR10      | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                            |                                    |                                |                 |                                                                             |                                                                                                                  |
| MAGR6       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                           |                                    |                                |                 |                                                                             |                                                                                                                  |
| SOPA4       | <i>Solidago parryi</i>                                                            | <i>Haplopappus parryi</i>                              |                                    |                                |                 |                                                                             |                                                                                                                  |
| MAPIP4      | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> |                                    |                                | Y               | Tierney & Foxx (1982)                                                       | Important species on waste disposal site                                                                         |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                              |                                    |                                | Y               | Eddleman (1984)                                                             | Did well on revegetated mined-soils                                                                              |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                    |                                    |                                |                 |                                                                             |                                                                                                                  |

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| HEOB        | <i>Hedeoma oblongifolia</i>                              | <i>Hedeoma oblongifolia</i>                                |                                    |                                |                 |                        |                                               |
| HEPU12      | <i>Hedeoma pulcherrima</i>                               | <i>Hedeoma pulcherrima</i>                                 |                                    |                                |                 |                        |                                               |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>           | <i>Helenium autumnale</i> var. <i>montanum</i>             | FACW (-), OBLW                     | FACW                           |                 |                        |                                               |
| HYHO        | <i>Hymenoxys hoopesii</i>                                | <i>Helenium hoopesii</i>                                   |                                    |                                |                 |                        |                                               |
| HEQU2       | <i>Helianthella quinquenervis</i>                        | <i>Helianthella quinquenervis</i>                          | FAC, FACW                          | FAC                            |                 |                        |                                               |
| HEAN3       | <i>Helianthus annuus</i>                                 | <i>Helianthus annuus</i>                                   | FACU, FAC                          | FAC (-)                        |                 |                        |                                               |
| HEAR8       | <i>Helianthus arizonensis</i>                            | <i>Helianthus arizonensis</i>                              |                                    |                                |                 |                        |                                               |
| HEPE        | <i>Helianthus petiolaris</i>                             | <i>Helianthus petiolaris</i>                               |                                    |                                |                 |                        |                                               |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i> | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i>     |                                    |                                | Y               | Eddleman (1984)        | Did poorly on revegetated mined-soils         |
| HEMA80      | <i>Heracleum maximum</i>                                 | <i>Heracleum lanatum</i>                                   | FACU (-), OBLW                     | OBLW                           |                 |                        |                                               |
| HEPA11      | <i>Heuchera parvifolia</i>                               | <i>Heuchera parvifolia</i>                                 |                                    |                                |                 |                        |                                               |
| HICA4       | <i>Hieracium carneum</i>                                 | <i>Hieracium carneum</i>                                   |                                    |                                |                 |                        |                                               |
| HIFE        | <i>Hieracium fendleri</i>                                | <i>Hieracium fendleri</i>                                  |                                    |                                |                 |                        |                                               |
| HIOD        | <i>Hierochloa odorata</i>                                | <i>Hierochloa odorata</i>                                  | FACU, FACW (+)                     | FACW (+)                       |                 |                        |                                               |
| PLJA        | <i>Pleuraphis jamesii</i>                                | <i>Hilaria jamesii</i>                                     |                                    |                                |                 |                        |                                               |
| HODU        | <i>Holodiscus dumosus</i>                                | <i>Holodiscus dumosus</i>                                  |                                    |                                |                 |                        |                                               |
| HOBR2       | <i>Hordeum brachyantherum</i>                            | <i>Hordeum brachyantherum</i>                              | FAC, FACW                          | FAC                            |                 |                        |                                               |
| HOJU        | <i>Hordeum jubatum</i>                                   | <i>Hordeum jubatum</i>                                     | FAC, FACW                          | FACW (-)                       | Y               | Russell (1985)         | Frequent occurrence on revegetated coal-mines |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>            | <i>Humulus americanus</i>                                  | FACU                               | Not Indicated                  |                 |                        |                                               |
| HYFE        | <i>Hydrophyllum fendleri</i>                             | <i>Hydrophyllum fendleri</i>                               | FAC, FACW                          | FACW                           |                 |                        |                                               |
| HYFI        | <i>Hymenopappus filifolius</i>                           | <i>Hymenopappus filifolius</i>                             |                                    |                                |                 |                        |                                               |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i>    | <i>Hymenopappus flavescens</i> var. <i>cano-tomentosus</i> |                                    |                                |                 |                        |                                               |
| HYNE        | <i>Hymenopappus newberryi</i>                            | <i>Hymenopappus newberryi</i>                              |                                    |                                |                 |                        |                                               |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                          | <i>Hymenopappus tenuifolius</i>                            |                                    |                                |                 |                        |                                               |
| TECA2       | <i>Tetradymia canescens</i>                              | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>               |                                    |                                |                 |                        |                                               |
| TEACA       | <i>Tetraneuris acaulis</i> var. <i>arizonica</i>         | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>             |                                    |                                |                 |                        |                                               |
| TEACN       | <i>Tetraneuris acaulis</i> var. <i>nana</i>              | <i>Hymenoxys argentea</i>                                  |                                    |                                |                 |                        |                                               |
| TEBR        | <i>Tetraneuris brandegei</i>                             | <i>Hymenoxys brandegei</i>                                 |                                    |                                |                 |                        |                                               |
| TEIV        | <i>Tetraneuris ivesiana</i>                              | <i>Hymenoxys ivesiana</i>                                  |                                    |                                |                 |                        |                                               |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>     | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>       |                                    |                                | Y               | Tierney & Foxx (1982)  | Important species on waste disposal site      |
| HYNI        | <i>Hyoscyamus niger</i>                                  | <i>Hyoscyamus niger</i>                                    |                                    |                                |                 |                        |                                               |

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| HYFO4       | <i>Hypericum formosum</i>                         | <i>Hypericum formosum</i>                          | FAC, FACW                          | FACW                           |                 |                        |                                               |
| IPCO3       | <i>Ipomoea coccinea</i>                           | <i>Ipomoea coccinea</i>                            | FACU, FAC                          | FAC (-)                        |                 |                        |                                               |
| IPHE        | <i>Ipomoea hederacea</i>                          | <i>Ipomoea hederacea</i>                           | FACU, FAC                          | FACU                           |                 |                        |                                               |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>  | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i> |                                    |                                |                 |                        |                                               |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i> | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>    |                                    |                                |                 |                        |                                               |
| IPLA2       | <i>Ipomopsis laxiflora</i>                        | <i>Ipomopsis laxiflora</i>                         |                                    |                                |                 |                        |                                               |
| IPLO2       | <i>Ipomopsis longiflora</i>                       | <i>Ipomopsis longiflora</i>                        |                                    |                                |                 |                        |                                               |
| IPMU3       | <i>Ipomopsis multiflora</i>                       | <i>Ipomopsis multiflora</i>                        |                                    |                                |                 |                        |                                               |
| IPPU4       | <i>Ipomopsis pumila</i>                           | <i>Ipomopsis pumila</i>                            |                                    |                                |                 |                        |                                               |
| IRMI        | <i>Iris missouriensis</i>                         | <i>Iris missouriensis</i>                          | FACW (-), OBLW                     | FACW (-)                       |                 |                        |                                               |
| IVAX        | <i>Iva axillaris</i>                              | <i>Iva axillaris</i>                               | FACU, FACW                         | FAC                            |                 |                        |                                               |
| IVXA        | <i>Iva xanthifolia</i>                            | <i>Iva xanthifolia</i>                             | FACU, FAC (+)                      | FAC                            |                 |                        |                                               |
| JAAM        | <i>Jamesia americana</i>                          | <i>Jamesia americana</i>                           | Upland, FACU                       | FACU                           |                 |                        |                                               |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>       | <i>Juncus balticus</i> var. <i>montanus</i>        | FACW, OBLW                         | OBLW                           |                 |                        |                                               |
| JUBU        | <i>Juncus bufonius</i>                            | <i>Juncus bufonius</i>                             | FACW, OBLW                         | OBLW                           |                 |                        |                                               |
| JUCO2       | <i>Juncus confusus</i>                            | <i>Juncus confusus</i>                             | FAC, FACW                          | FACW                           |                 |                        |                                               |
| JUDR        | <i>Juncus drummondii</i>                          | <i>Juncus drummondii</i>                           | FACW (-), FACW                     | FACW                           |                 |                        |                                               |
| JUIN2       | <i>Juncus interior</i>                            | <i>Juncus interior</i>                             | FACU, FACW                         | FACW                           |                 |                        |                                               |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i> | <i>Juncus longistylis</i> var. <i>longistylis</i>  | FACW, FACW (+)                     | FACW                           |                 |                        |                                               |
| JUMA4       | <i>Juncus marginatus</i>                          | <i>Juncus marginatus</i>                           | FACW, FACW (+)                     | FACW                           |                 |                        |                                               |
| JUME4       | <i>Juncus mexicanus</i>                           | <i>Juncus mexicanus</i>                            | FACW                               | FACW                           |                 |                        |                                               |
| JUTE        | <i>Juncus tenuis</i>                              | <i>Juncus tenuis</i>                               | FAC (-), FACW                      | FACW (-)                       |                 |                        |                                               |
| JUTO        | <i>Juncus torreyi</i>                             | <i>Juncus torreyi</i>                              | FACW, FACW (+)                     | FACW                           |                 |                        |                                               |
| JUXI        | <i>Juncus xiphioides</i>                          | <i>Juncus xiphioides</i>                           | OBLW                               | OBLW                           |                 |                        |                                               |
| JUCO6       | <i>Juniperus communis</i>                         | <i>Juniperus communis</i>                          |                                    |                                |                 |                        |                                               |
| JUDE2       | <i>Juniperus deppeana</i>                         | <i>Juniperus deppeana</i>                          |                                    |                                |                 |                        |                                               |
| JUMO        | <i>Juniperus monosperma</i>                       | <i>Juniperus monosperma</i>                        |                                    |                                | Y               | Fisher et al. (1990)   | With space, good for revegetating mined lands |
| JUSC2       | <i>Juniperus scopulorum</i>                       | <i>Juniperus scopulorum</i>                        |                                    |                                | Y               | Eddleman (1984)        | Did poorly on revegetated mined-soils         |
| KAHI        | <i>Kallstroemia hirsutissima</i>                  | <i>Kallstroemia hirsutissima</i>                   |                                    |                                |                 |                        |                                               |
| KOSC        | <i>Kochia scoparia</i>                            | <i>Kochia scoparia</i>                             | Upland, FAC                        | FAC                            | Y               | Jastrow et al. (1984a) | Did poorly in revegetating mined lands        |
| KOMA        | <i>Koeleria macrantha</i>                         | <i>Koeleria cristata</i>                           |                                    |                                |                 |                        |                                               |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake               | <i>Krigia biflora</i>                              | Upland, FACU                       | Not Indicated                  |                 |                        |                                               |

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|-------------|---------------------------------------------------------|----------------------------------------------|------------------------------------|--------------------------------|-----------------|---------------------------------------------|----------------------------------------------|
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                    |                                    |                                |                 |                                             |                                              |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                    | FACU (-), FACU                     | FAC                            |                 |                                             |                                              |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                  |                                    |                                |                 |                                             |                                              |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                   | Upland, FAC                        | Not Indicated                  |                 |                                             |                                              |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                     | FACU, FAC                          | FAC                            |                 |                                             |                                              |
| LASE        | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                      | FACU, FAC                          | FAC                            | Y               | Ditsword et al. (1982); Beley et al. (1982) | Invades transmission-line construction sites |
| LABI        | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                       |                                    |                                |                 |                                             |                                              |
| LASQ        | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                      |                                    |                                |                 |                                             |                                              |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                     |                                    |                                |                 |                                             |                                              |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                        |                                    |                                |                 |                                             |                                              |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus arizonicus</i>                   |                                    |                                |                 |                                             |                                              |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus leucanthus</i>                   |                                    |                                |                 |                                             |                                              |
| LEOR        | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                     | OBLW                               | OBLW                           |                 |                                             |                                              |
| LEMI3       | <i>Lemna minor</i>                                      | <i>Lemna minor</i>                           | OBLW                               | OBLW                           |                 |                                             |                                              |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>           | <i>Lepidium medium</i> var. <i>pubescens</i> |                                    |                                |                 |                                             |                                              |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>        | <i>Lepidium medium</i> var. <i>medium</i>    |                                    |                                |                 |                                             |                                              |
| LEFE        | <i>Lesquerella fendleri</i>                             | <i>Lesquerella fendleri</i>                  |                                    |                                |                 |                                             |                                              |
| LEIN3       | <i>Lesquerella intermedia</i>                           | <i>Lesquerella intermedia</i>                |                                    |                                |                 |                                             |                                              |
| LERE3       | <i>Lesquerella rectipes</i>                             | <i>Lesquerella rectipes</i>                  |                                    |                                |                 |                                             |                                              |
| CHER2       | <i>Chaetopappa ericoides</i>                            | <i>Leucelene ericoides</i>                   |                                    |                                |                 |                                             |                                              |
| LIPU        | <i>Liatris punctata</i>                                 | <i>Liatris punctata</i>                      |                                    |                                | Y               | Tierney & Foxx (1982)                       | Important species on waste disposal site     |
| LIPO        | <i>Ligusticum porteri</i>                               | <i>Ligusticum porteri</i>                    | FACU (-)                           | Not Indicated                  |                 |                                             |                                              |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i>        | <i>Lilium umbellatum</i>                     |                                    |                                |                 |                                             |                                              |
| LIAQ        | <i>Limosella aquatica</i>                               | <i>Limosella aquatica</i>                    | OBLW                               | OBLW                           |                 |                                             |                                              |
| LIVU2       | <i>Linaria vulgaris</i>                                 | <i>Linaria vulgaris</i>                      |                                    |                                |                 |                                             |                                              |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>              | <i>Linum aristatum</i> var. <i>australe</i>  |                                    |                                |                 |                                             |                                              |
| LILE3       | <i>Linum lewisii</i>                                    | <i>Linum lewisii</i>                         |                                    |                                |                 |                                             |                                              |
| LINE        | <i>Linum neomexicanum</i>                               | <i>Linum neomexicana</i>                     |                                    |                                |                 |                                             |                                              |
| LIPU4       | <i>Linum puberulum</i>                                  | <i>Linum puberulum</i>                       |                                    |                                |                 |                                             |                                              |

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|-------------|--------------------------------------------------------------------------|---------------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|----------------------------------------------|
| LIRI        | <i>Linum rigidum</i>                                                     | <i>Linum rigidum</i> "complex"                    |                                    |                                |                 |                        |                                              |
| LICO7       | <i>Lithospermum cobrense</i>                                             | <i>Lithospermum cobrense</i>                      |                                    |                                |                 |                        |                                              |
| LIIN2       | <i>Lithospermum incisum</i>                                              | <i>Lithospermum incisum</i>                       |                                    |                                |                 |                        |                                              |
| LIMU3       | <i>Lithospermum multiflorum</i>                                          | <i>Lithospermum multiflorum</i>                   |                                    |                                |                 |                        |                                              |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>                           | <i>Lobelia cardinalis</i> subsp. <i>graminae</i>  | FACW (+), OBLW                     | OBLW                           |                 |                        |                                              |
| LOPE        | <i>Lolium perenne</i>                                                    | <i>Lolium perenne</i>                             | FACU (-), FAC                      | FACU                           |                 |                        |                                              |
| LOIN5       | <i>Lonicera involucrata</i>                                              | <i>Lonicera involucrata</i>                       | Upland, FAC                        | FACU                           |                 |                        |                                              |
| LOWR        | <i>Lotus wrightii</i>                                                    | <i>Lotus wrightii</i>                             |                                    |                                | Y               | Beley et al. (1982)    | Invades transmission-line construction sites |
| LUAL5       | <i>Lupinus X alpestris</i>                                               | <i>Lupinus alpestris</i>                          |                                    |                                |                 |                        |                                              |
| LUAM        | <i>Lupinus ammophilus</i>                                                | <i>Lupinus ammophilus</i>                         |                                    |                                |                 |                        |                                              |
| LUAR3       | <i>Lupinus argenteus</i>                                                 | <i>Lupinus argenteus</i>                          |                                    |                                |                 |                        |                                              |
| LUBR2       | <i>Lupinus brevicaulis</i>                                               | <i>Lupinus brevicaulis</i>                        |                                    |                                |                 |                        |                                              |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                          | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> |                                    |                                |                 |                        |                                              |
| LUKI        | <i>Lupinus kingii</i>                                                    | <i>Lupinus kingii</i>                             | Upland, FAC                        | FAC                            |                 |                        |                                              |
| LUPU        | <i>Lupinus pusillus</i>                                                  | <i>Lupinus pusillus</i>                           |                                    |                                |                 |                        |                                              |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>                         | <i>Lupinus rubricaulis</i>                        |                                    |                                |                 |                        |                                              |
| LUPA4       | <i>Luzula parviflora</i>                                                 | <i>Luzula parviflora</i>                          | FACU, FAC                          | FAC                            |                 |                        |                                              |
| LYPA        | <i>Lycium pallidum</i>                                                   | <i>Lycium pallidum</i>                            |                                    |                                |                 |                        |                                              |
| LYAM        | <i>Lycopus americanus</i>                                                | <i>Lycopus americanus</i>                         | OBLW                               | OBLW                           |                 |                        |                                              |
| LYPH        | <i>Lycurus phleoides</i>                                                 | <i>Lycurus phleoides</i>                          |                                    |                                |                 |                        |                                              |
| PSAS2       | <i>Psilactis asteroides</i>                                              | <i>Machaeranthera amplifolia</i>                  |                                    |                                |                 |                        |                                              |
| MABI        | <i>Machaeranthera bigelovii</i>                                          | <i>Machaeranthera bigelovii</i>                   |                                    |                                |                 |                        |                                              |
| MACA2       | <i>Machaeranthera canescens</i>                                          | <i>Machaeranthera canescens</i>                   |                                    |                                |                 |                        |                                              |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                    |                                    |                                |                 |                        |                                              |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>               |                                    |                                |                 |                        |                                              |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                   |                                    |                                |                 |                        |                                              |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                       |                                    |                                |                 |                        |                                              |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                             |                                    |                                |                 |                        |                                              |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                            |                                    |                                |                 |                        |                                              |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                           |                                    |                                |                 |                        |                                              |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                       |                                    |                                |                 |                        |                                              |
| MAVU        | <i>Marrubium vulgare</i>                                                 | <i>Marrubium vulgare</i>                          | Upland, FACW (-)                   | FAC (+)                        |                 |                        |                                              |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                       | <i>Maurandya antirrhiniflora</i>                  |                                    |                                |                 |                        |                                              |

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|-------------|----------------------------------------------------|----------------------------------------------------|------------------------------------|--------------------------------|-----------------|-------------------------------------------|------------------------------------------------------------------------------------------------|
| MELU        | <i>Medicago lupulina</i>                           | <i>Medicago lupulina</i>                           | Upland, FAC                        | FAC                            | Y               | Leps & Stursa (1989); Beley et al. (1982) | Dominant in early succession [in Czechoslovakia]; Invades transmission-line construction sites |
| MESA        | <i>Medicago sativa</i>                             | <i>Medicago sativa</i>                             |                                    |                                | Y               | Sindelar (1984)                           | Dominant in mid-succession                                                                     |
| MELE2       | <i>Melampodium leucanthum</i>                      | <i>Melampodium leucanthum</i>                      |                                    |                                |                 |                                           |                                                                                                |
| MEPO        | <i>Melica porteri</i>                              | <i>Melica porteri</i>                              |                                    |                                |                 |                                           |                                                                                                |
| MEOF        | <i>Melilotus officinalis</i>                       | <i>Melilotus albus</i>                             | FACU (-), FACU (+)                 | FACU (+)                       |                 |                                           |                                                                                                |
| MEIN2       | <i>Melilotus indicus</i>                           | <i>Melilotus indicus</i>                           | FACU (-), FAC                      | FACU (+)                       |                 |                                           |                                                                                                |
| MEOF        | <i>Melilotus officinalis</i>                       | <i>Melilotus officinalis</i>                       | FACU (-), FACU (+)                 | FACU (+)                       | Y               | Sindelar (1984)                           | Dominated 2nd year succession on mined soils                                                   |
| MESC        | <i>Menodora scabra</i>                             | <i>Menodora scabra</i>                             |                                    |                                |                 |                                           |                                                                                                |
| MEAR4       | <i>Mentha arvensis</i>                             | <i>Mentha arvensis</i>                             | FAC, FACW                          | FACW                           |                 |                                           |                                                                                                |
| MEAL6       | <i>Mentzelia albicaulis</i>                        | <i>Mentzelia albicaulis</i>                        |                                    |                                |                 |                                           |                                                                                                |
| MELA        | <i>Mentzelia laciniata</i>                         | <i>Mentzelia laciniata</i>                         |                                    |                                |                 |                                           |                                                                                                |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>          | <i>Mentzelia nuda</i> var. <i>stricta</i>          |                                    |                                |                 |                                           |                                                                                                |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>         | <i>Mentzelia pumila</i> var. <i>integra</i>        |                                    |                                |                 |                                           |                                                                                                |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>    | <i>Mentzelia pumila</i> var. <i>multiflora</i>     |                                    |                                |                 |                                           |                                                                                                |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i> | <i>Mentzelia pumila</i> var. <i>pumila</i>         |                                    |                                |                 |                                           |                                                                                                |
| MERU        | <i>Mentzelia rusbyi</i>                            | <i>Mentzelia rusbyi</i>                            |                                    |                                |                 |                                           |                                                                                                |
| MEBR        | <i>Mertensia brevistyla</i>                        | <i>Mertensia brevistyla</i>                        |                                    |                                |                 |                                           |                                                                                                |
| MEFR2       | <i>Mertensia franciscana</i>                       | <i>Mertensia franciscana</i>                       | FACW, OBLW                         | FACW                           |                 |                                           |                                                                                                |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i>    | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   |                                    |                                |                 |                                           |                                                                                                |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> |                                    |                                |                 |                                           |                                                                                                |
| URLI2       | <i>Uropappus linearifolius</i>                     | <i>Microseris linearifolia</i>                     |                                    |                                |                 |                                           |                                                                                                |
|             |                                                    | <i>Microseris minimus</i>                          |                                    |                                |                 |                                           |                                                                                                |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>         | <i>Microseris gracilis</i>                         | Upland, FAC (-)                    | FAC (-)                        |                 |                                           |                                                                                                |
| MIFL2       | <i>Mimulus floribundus</i>                         | <i>Mimulus floribundus</i>                         | FACW (+), OBLW                     | FACW (+)                       |                 |                                           |                                                                                                |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>       | <i>Mimulus glabratus</i> var. <i>fremontii</i>     | OBLW                               | OBLW                           |                 |                                           |                                                                                                |
| MIGU        | <i>Mimulus guttatus</i>                            | <i>Mimulus guttatus</i>                            | OBLW                               | OBLW                           |                 |                                           |                                                                                                |
| MICO7       | <i>Mirabilis coccinea</i>                          | <i>Mirabilis coccinea</i>                          |                                    |                                |                 |                                           |                                                                                                |
| MIMU        | <i>Mirabilis multiflora</i>                        | <i>Mirabilis multiflora</i>                        |                                    |                                | Y               | Beley et al. (1982)                       | Invades transmission-line construction sites                                                   |

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|-------------|------------------------------------------------------------------------|---------------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|----------------------------------------------|
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                     |                                    |                                |                 |                        |                                              |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                       |                                    |                                |                 |                        |                                              |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                       |                                    |                                |                 |                        |                                              |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                          |                                    |                                | Y               | Ditsword et al. (1982) | Invades transmission-line construction sites |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                       |                                    |                                |                 |                        |                                              |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                       |                                    |                                |                 |                        |                                              |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                   | FACW, FACW (+)                     | FACW                           | Y               | Eddleman (1984)        | Did poorly on revegetated mined-soils        |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                    |                                    |                                |                 |                        |                                              |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                      | FAC, FACW                          | FACW                           |                 |                        |                                              |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                       |                                    |                                |                 |                        |                                              |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                    |                                    |                                |                 |                        |                                              |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                       |                                    |                                |                 |                        |                                              |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                   |                                    |                                |                 |                        |                                              |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                      | FACU, FACW                         | FACW                           | Y               | Eddleman (1984)        | Did well on revegetated mined-soils          |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                        | Upland, FACW                       | FACU                           |                 |                        |                                              |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia torreyi</i>                       |                                    |                                |                 |                        |                                              |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolfii</i>                        | FACU (-), FACU                     | FACU                           |                 |                        |                                              |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                      | FACU                               | FACU                           |                 |                        |                                              |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                           |                                    |                                |                 |                        |                                              |
|             |                                                                        | <i>Myosurus minimus</i>                           | FACW (-), OBLW                     | OBLW                           |                 |                        |                                              |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                            |                                    |                                |                 |                        |                                              |
| NAHI        | <i>Nama hispidum</i>                                                   | <i>Nama hispidum</i> var. <i>hispidum</i>         |                                    |                                |                 |                        |                                              |
| NECA2       | <i>Nepeta cataria</i>                                                  | <i>Nepeta cataria</i>                             | OBLW                               | OBLW+C1058                     |                 |                        |                                              |
| NIAT        | <i>Nicotiana attenuata</i>                                             | <i>Nicotiana attenuata</i>                        | Upland, FAC                        | FAC                            |                 |                        |                                              |
| NOMI        | <i>Nolina microcarpa</i>                                               | <i>Nolina microcarpa</i>                          |                                    |                                |                 |                        |                                              |
| NOTHO       | <i>Notholaena</i>                                                      | <i>Notholaena</i> spp.                            |                                    |                                |                 |                        |                                              |
| NOST        | <i>Notholaena standleyi</i>                                            | <i>Notholaena standleyi</i>                       |                                    |                                |                 |                        |                                              |
| OEAL        | <i>Oenothera albicaulis</i>                                            | <i>Oenothera albicaulis</i>                       |                                    |                                |                 |                        |                                              |
| OECE2       | <i>Oenothera cespitosa</i>                                             | <i>Oenothera caespitosa</i>                       |                                    |                                |                 |                        |                                              |
| OECEM3      | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i>                    | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>  |                                    |                                |                 |                        |                                              |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>                       | <i>Oenothera caespitosa</i> subsp. <i>montana</i> |                                    |                                |                 |                        |                                              |
| OECO2       | <i>Oenothera coronopifolia</i>                                         | <i>Oenothera coronopifolia</i>                    |                                    |                                |                 |                        |                                              |



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|-------------|-----------------------------------------------------|----------------------------------------------------|------------------------------------|--------------------------------|-----------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| OEFL        | <i>Oenothera flava</i>                              | <i>Oenothera flava</i>                             | FAC (+), FACW (+)                  | FACW                           |                 |                                                                          |                                                                                                                                 |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>          | <i>Oenothera hookeri</i>                           |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OELA        | <i>Oenothera laciniata</i>                          | <i>Oenothera laciniata</i> var. <i>laciniata</i>   | FACU (-), FAC                      | FAC                            |                 |                                                                          |                                                                                                                                 |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>        | <i>Oenothera pallida</i> subsp. <i>pallida</i>     |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OEPR        | <i>Oenothera primiveris</i>                         | <i>Oenothera primiveris</i>                        |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OPCL        | <i>Opuntia clavata</i>                              | <i>Opuntia clavata</i>                             |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>        | <i>Opuntia erinacea</i> var. <i>erinacea</i>       |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>       | <i>Opuntia erinacea</i> var. <i>utahensis</i>      |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OPIM        | <i>Opuntia imbricata</i>                            | <i>Opuntia imbricata</i>                           |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>    | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>  | <i>Opuntia phaeacantha</i> var. <i>discata</i>     |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>  | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>  | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> |                                    |                                | Y               | Jastrow et al. (1984a); Eddleman (1984)                                  |                                                                                                                                 |
| ORFA        | <i>Orobancha fasciculata</i>                        | <i>Orobancha fasciculata</i> var. <i>lutea</i>     |                                    |                                |                 |                                                                          |                                                                                                                                 |
| ORLU        | <i>Orobancha ludoviciana</i>                        | <i>Orobancha ludoviciana</i>                       |                                    |                                |                 |                                                                          |                                                                                                                                 |
| ORLUM       | <i>Orobancha ludoviciana</i> ssp. <i>multiflora</i> | <i>Orobancha multiflora</i>                        |                                    |                                |                 |                                                                          |                                                                                                                                 |
| ORLU2       | <i>Orthocarpus luteus</i>                           | <i>Orthocarpus luteus</i>                          | FACU (-), FACU                     | FACU (-)                       | Y               | Eddleman (1984)                                                          | Did poorly on revegetated mined soils                                                                                           |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                    | <i>Orthocarpus purpureo-albus</i>                  |                                    |                                |                 |                                                                          |                                                                                                                                 |
| ORAS        | <i>Oryzopsis asperifolia</i>                        | <i>Oryzopsis asperifolia</i>                       |                                    |                                |                 |                                                                          |                                                                                                                                 |
| ACHY        | <i>Achnatherum hymenoides</i>                       | <i>Oryzopsis hymenoides</i>                        | Upland, FACU (+)                   | FACU (-)                       | Y               | Koniak (1985); Reichardt (1982); Jastrow et al. (1984a); Eddleman (1984) | Dominant in mid-succession; same; Dominant on mid-successional saline soils; Germinated poorly without treatment on mined-soils |
| PIMI7       | <i>Piptatherum micranthum</i>                       | <i>Oryzopsis micrantha</i>                         |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OSDE        | <i>Osmorhiza depauperata</i>                        | <i>Osmorhiza obtusa</i>                            |                                    |                                |                 |                                                                          |                                                                                                                                 |
| OXAL2       | <i>Oxalis alpina</i>                                | <i>Oxalis metcalfei</i>                            |                                    |                                |                 |                                                                          |                                                                                                                                 |

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| OXVI        | <i>Oxalis violacea</i>                                      | <i>Oxalis violacea</i>                          |                                    |                                |                 |                        |                                                 |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                       |                                    |                                |                 |                        |                                                 |
| MILI3       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i>  |                                    |                                |                 |                        |                                                 |
| OXFE        | <i>Oxypolis fendleri</i>                                    | <i>Oxypolis fendleri</i>                        | FACW, OBLW                         | FACW                           |                 |                        |                                                 |
| OXLA3       | <i>Oxytropis lambertii</i>                                  | <i>Oxytropis lambertii</i>                      |                                    |                                |                 |                        |                                                 |
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                    |                                    |                                |                 |                        |                                                 |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                         |                                    |                                |                 |                        |                                                 |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i>  | FACU, FAC                          | FAC                            |                 |                        |                                                 |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                           | Upland, FACU                       | FACU                           |                 |                        |                                                 |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                          |                                    |                                |                 |                        |                                                 |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                        |                                    |                                |                 |                        |                                                 |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                          | FACU, FACW                         | FAC                            |                 |                        |                                                 |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                    |                                    |                                |                 |                        |                                                 |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                     |                                    |                                |                 |                        |                                                 |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                         | FAC, FACW                          | FAC (+)                        | Y               | Jastrow et al. (1984b) | Did poor-fair on spoiled mined soil experiments |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                       |                                    |                                |                 |                        |                                                 |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                   |                                    |                                |                 |                        |                                                 |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                      |                                    |                                |                 |                        |                                                 |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                           |                                    |                                |                 |                        |                                                 |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                        | FACU, FAC                          | FACU                           |                 |                        |                                                 |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                |                                    |                                |                 |                        |                                                 |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                     |                                    |                                |                 |                        |                                                 |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                         |                                    |                                |                 |                        |                                                 |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                        |                                    |                                |                 |                        |                                                 |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                   |                                    |                                |                 |                        |                                                 |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i> |                                    |                                |                 |                        |                                                 |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                        |                                    |                                |                 |                        |                                                 |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                       |                                    |                                |                 |                        |                                                 |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                        |                                    |                                |                 |                        |                                                 |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                         |                                    |                                |                 |                        |                                                 |

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| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>    | <i>Penstemon linarioides</i> subsp. <i>Coloradoensis</i>  |                                    |                                |                 |                                        |                                                         |
| PEOL        | <i>Penstemon oliganthus</i>                               | <i>Penstemon oliganthus</i>                               |                                    |                                |                 |                                        |                                                         |
| PERY        | <i>Penstemon rydbergii</i>                                | <i>Penstemon rydbergii</i>                                | FACU, FAC                          | FACU                           |                 |                                        |                                                         |
| PESE11      | <i>Penstemon secundiflorus</i>                            | <i>Penstemon secundiflorus</i>                            |                                    |                                |                 |                                        |                                                         |
| PEVI4       | <i>Penstemon virgatus</i>                                 | <i>Penstemon virgatus</i>                                 | FACU                               | FACU                           |                 |                                        |                                                         |
| PEWH        | <i>Penstemon whippleanus</i>                              | <i>Penstemon whippleanus</i>                              | FACU (-), FACU (+)                 | FACU (+)                       |                 |                                        |                                                         |
| PECA10      | <i>Pericome caudata</i>                                   | <i>Pericome caudata</i>                                   |                                    |                                |                 |                                        |                                                         |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                  | <i>Petalostemum candidum</i>                              |                                    |                                | Y               | Jastrow et al. (1984); Eddleman (1984) | Does fairly well during early succession on mined soils |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                | <i>Petalostemum compactum</i>                             |                                    |                                |                 |                                        |                                                         |
| DAEX2       | <i>Dalea exigua</i>                                       | <i>Petalostemum exile</i>                                 |                                    |                                |                 |                                        |                                                         |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                | <i>Petalostemum purpureum</i>                             |                                    |                                |                 |                                        |                                                         |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                  | <i>Petalostemum villosum</i>                              |                                    |                                |                 |                                        |                                                         |
| PHCO        | <i>Phacelia coerulea</i>                                  | <i>Phacelia coerulea</i>                                  |                                    |                                |                 |                                        |                                                         |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>           | <i>Phacelia corrugata</i>                                 |                                    |                                |                 |                                        |                                                         |
| PHHE2       | <i>Phacelia heterophylla</i>                              | <i>Phacelia heterophylla</i>                              | Upland, FAC                        | FAC                            |                 |                                        |                                                         |
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              |                                    |                                |                 |                                        |                                                         |
| PHEG        | <i>Phacelia egena</i>                                     | <i>Phacelia magellanica</i>                               |                                    |                                |                 |                                        |                                                         |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       |                                    |                                |                 |                                        |                                                         |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            |                                    |                                |                 |                                        |                                                         |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              |                                    |                                |                 |                                        |                                                         |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> |                                    |                                |                 |                                        |                                                         |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     |                                    |                                |                 |                                        |                                                         |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    | FACU                               | FACU                           |                 |                                        |                                                         |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   |                                    |                                |                 |                                        |                                                         |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             |                                    |                                |                 |                                        |                                                         |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                |                                    |                                |                 |                                        |                                                         |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           |                                    |                                |                 |                                        |                                                         |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        |                                    |                                |                 |                                        |                                                         |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 | Upland, FAC                        | FACU                           |                 |                                        |                                                         |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               | Upland, FAC                        | FACU                           |                 |                                        |                                                         |

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| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | FACU (-), FAC                      | FAC (-)                        | Y               | Johnson (1987); Russell (1985)                  | Trees with diameters > 6 cm will snap during a snow avalanche; Frequent occurrence on revegetated coal-mines |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | FAC (-), FAC                       | FAC                            |                 |                                                 |                                                                                                              |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       |                                    |                                |                 |                                                 |                                                                                                              |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     |                                    |                                |                 |                                                 |                                                                                                              |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | Upland, FACU                       | FACU                           |                 |                                                 |                                                                                                              |
| PLAR2       | <i>Plantago argyraea</i>                                  | <i>Plantago argyraea</i>                                  |                                    |                                |                 |                                                 |                                                                                                              |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     | FACU, FACW                         | FACW                           |                 |                                                 |                                                                                                              |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   |                                    |                                | Y               | Hessing & Johnson (1982); Tierney & Foxx (1982) | Climax species on roadside; Important species on waste disposal site                                         |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          | FACU, FACW (-)                     | FAC (-)                        |                 |                                                 |                                                                                                              |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      |                                    |                                |                 |                                                 |                                                                                                              |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      | FACU (-), FAC                      | FACU                           |                 |                                                 |                                                                                                              |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    |                                    |                                |                 |                                                 |                                                                                                              |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       |                                    |                                | Y               | Russell (1985)                                  | Abundant occurrence on revegetated coal-mines                                                                |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    |                                    |                                |                 |                                                 |                                                                                                              |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     | FACU (-), FACW                     | FACW                           |                 |                                                 |                                                                                                              |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      | FACU, FACW (+)                     | FAC                            | Y               | Russell (1985)                                  | Frequent occurrence on revegetated coal-mines                                                                |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    | FACU, FAC (+)                      | Not Indicated                  |                 |                                                 |                                                                                                              |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | FACU, FAC (-)                      | FACU                           | Y               | Russell (1985)                                  | Frequent occurrence on revegetated coal-mines                                                                |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             |                                    |                                |                 |                                                 |                                                                                                              |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | FACU, FAC                          | FAC                            |                 |                                                 |                                                                                                              |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | OBLW                               | OBLW                           |                 |                                                 |                                                                                                              |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                | Upland, FACW                       | FACW                           |                 |                                                 |                                                                                                              |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             | FAC, OBLW                          | OBLW                           |                 |                                                 |                                                                                                              |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              | FACU (-), FAC                      | FACU (-)                       | Y               | Inouye & Tilman (1988)                          | Early invader of disturbed sites                                                                             |

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|-------------|---------------------------------------------------|----------------------------------------------------|------------------------------------|--------------------------------|-----------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| PODO4       | <i>Polygonum douglasii</i>                        | <i>Polygonum douglasii</i>                         |                                    |                                |                 |                                                           |                                                                                                                 |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>  | <i>Polygonum montanum</i>                          |                                    |                                |                 |                                                           |                                                                                                                 |
| POPE3       | <i>Polygonum persicaria</i>                       | <i>Polygonum persicaria</i>                        | FAC, OBLW                          | FACW (+)                       |                 |                                                           |                                                                                                                 |
| PORA3       | <i>Polygonum ramosissimum</i>                     | <i>Polygonum ramosissimum</i>                      | FACU (-), FACW                     | FAC                            |                 |                                                           |                                                                                                                 |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i> | <i>Polygonum sawatchense</i>                       |                                    |                                |                 |                                                           |                                                                                                                 |
| POMO5       | <i>Polypogon monspeliensis</i>                    | <i>Polypogon monspeliensis</i>                     | FACW, OBLW                         | FACW (+)                       |                 |                                                           |                                                                                                                 |
| POAN3       | <i>Populus angustifolia</i>                       | <i>Populus angustifolia</i>                        | FAC, FACW                          | FACW                           |                 |                                                           |                                                                                                                 |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>    | <i>Populus fremontii</i> var. <i>wislizenii</i>    | FACW (-), FACW                     | FACW                           |                 |                                                           |                                                                                                                 |
| POTR5       | <i>Populus tremuloides</i>                        | <i>Populus tremuloides</i> var. <i>aurea</i>       | FACU, FAC (+)                      | FACU                           | Y               | Sakal et al. (1985); Russell (1985); Klinka et al. (1989) | Dominant in early succession; Frequent occurrence on revegetated coal-mines; Characteristic of early succession |
| POOL        | <i>Portulaca oleracea</i>                         | <i>Portulaca oleracea</i>                          | FACU, FAC                          | FAC                            | Y               | Ditsword et al. (1982)                                    | Invades transmission-line construction sites                                                                    |
| ARAN7       | <i>Argentina anserina</i>                         | <i>Potentilla anserina</i>                         | FACW, OBLW                         | OBLW                           |                 |                                                           |                                                                                                                 |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>  | <i>Potentilla arguta</i> subsp. <i>convallaria</i> | Upland, FACU (+)                   | FACU                           |                 |                                                           |                                                                                                                 |
| POCO13      | <i>Potentilla concinna</i>                        | <i>Potentilla concinna</i>                         |                                    |                                |                 |                                                           |                                                                                                                 |
| POCR4       | <i>Potentilla crinita</i>                         | <i>Potentilla crinita</i>                          |                                    |                                |                 |                                                           |                                                                                                                 |
| PEFL15      | <i>Pentaphylloides floribunda</i>                 | <i>Potentilla fruticosa</i>                        | FAC (-), FACW                      | FACW (-)                       | Y               | Russell (1985)                                            | Frequent occurrence on revegetated coal-mines                                                                   |
| POHI6       | <i>Potentilla hippiana</i>                        | <i>Potentilla hippiana</i>                         |                                    |                                |                 |                                                           |                                                                                                                 |
| PONO3       | <i>Potentilla norvegica</i>                       | <i>Potentilla norvegica</i>                        | FAC, FACU                          | FAC                            | Y               | Russell (1985)                                            | Abundant occurrence on revegetated coal-mines                                                                   |
| POPE8       | <i>Potentilla pennsylvanica</i>                   | <i>Potentilla pennsylvanica</i>                    |                                    |                                |                 |                                                           |                                                                                                                 |
| POPU9       | <i>Potentilla pulcherrima</i>                     | <i>Potentilla pulcherrima</i>                      |                                    |                                |                 |                                                           |                                                                                                                 |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>   | <i>Potentilla thurberi</i> var. <i>thurberi</i>    | FACW (+)                           | FACW (+)                       |                 |                                                           |                                                                                                                 |
| PRRU        | <i>Primula rusbyi</i>                             | <i>Primula rusbyi</i>                              | FAC                                | FAC                            |                 |                                                           |                                                                                                                 |
| PRVU        | <i>Prunella vulgaris</i>                          | <i>Prunella vulgaris</i>                           | FACU, FACW (-)                     | FACW                           |                 |                                                           |                                                                                                                 |
| PRAM        | <i>Prunus americana</i>                           | <i>Prunus americana</i>                            | Upland, FACU                       | Not Indicated                  |                 |                                                           |                                                                                                                 |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>   | <i>Prunus emarginata</i> var. <i>emarginata</i>    |                                    |                                |                 |                                                           |                                                                                                                 |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>  | <i>Prunus virginiana</i> var. <i>melanocarpa</i>   | FACU (-), FAC                      | FAC                            |                 |                                                           |                                                                                                                 |
| PSMO        | <i>Pseudocymopterus montanus</i>                  | <i>Pseudocymopterus montanus</i>                   |                                    |                                |                 |                                                           |                                                                                                                 |

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|-------------|-----------------------------------------------------------|-------------------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|--------------------------------------------|
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>       |                                    |                                | Y               | Vale (1981)            | Early invader                              |
| PSTA        | <i>Psilostrophe tagetina</i>                              | <i>Psilostrophe tagetina</i>                          |                                    |                                |                 |                        |                                            |
| PEHYH       | <i>Pedimelum hypogaeum</i> var. <i>hypogaeum</i>          | <i>Psoralea hypogaea</i>                              |                                    |                                |                 |                        |                                            |
| PSLA3       | <i>Psoralidium lanceolatum</i>                            | <i>Psoralea lanceolata</i>                            |                                    |                                |                 |                        |                                            |
| PSTE5       | <i>Psoralidium tenuiflorum</i>                            | <i>Psoralea tenuiflora</i>                            |                                    |                                | Y               | Eddleman (1984)        | Did well on revegetated mined soils        |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>         | <i>Ptelea trifoliata</i> susp <i>angustifolia</i>     | Upland, FAC                        | FACU                           |                 |                        |                                            |
| PTAQ2       | <i>Pteridium aquilinum</i> var. <i>pubescens</i>          | <i>Pteridium aquilinum</i> var. <i>pubescens</i>      | FACU, FAC (-)                      | FACU                           | Y               | Klinka et al. (1989)   | Characteristic of early succession         |
| PTAN2       | <i>Pterospora andromedea</i>                              | <i>Pterospora andromedea</i>                          |                                    |                                | Y               | Klinka et al. (1989)   | Characteristic of moisture-deficient sites |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>            | <i>Pulsatilla ludoviciana</i>                         |                                    |                                |                 |                        |                                            |
| PUTR2       | <i>Purshia tridentata</i>                                 | <i>Purshia tridentata</i>                             |                                    |                                | Y               | Koniak (1985)          | Dominant in late-mid succession            |
| PYAS        | <i>Pyrola asarifolia</i>                                  | <i>Pyrola asarifolia</i>                              | FACU, FACW                         | Not Indicated                  |                 |                        |                                            |
| PYCH        | <i>Pyrola chlorantha</i>                                  | <i>Pyrola chlorantha</i>                              | Upland, FACW                       | Not Indicated                  |                 |                        |                                            |
| PYEL        | <i>Pyrola elliptica</i>                                   | <i>Pyrola elliptica</i>                               |                                    |                                |                 |                        |                                            |
| PYMI        | <i>Pyrola minor</i>                                       | <i>Pyrola minor</i>                                   | Upland, FAC (+)                    | Not Indicated                  |                 |                        |                                            |
| PYPI2       | <i>Pyrola picta</i>                                       | <i>Pyrola picta</i>                                   |                                    |                                |                 |                        |                                            |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       |                                    |                                |                 |                        |                                            |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               |                                    |                                |                 |                        |                                            |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 |                                    |                                |                 |                        |                                            |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                |                                    |                                |                 |                        |                                            |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             |                                    |                                |                 |                        |                                            |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               |                                    |                                |                 |                        |                                            |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              |                                    |                                |                 |                        |                                            |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           | FAC, FACW                          | Not Indicated                  |                 |                        |                                            |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   | OBLW                               | OBLW                           |                 |                        |                                            |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       | FACW, FACW (+)                     | FACW                           |                 |                        |                                            |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> | OBLW                               | OBLW                           |                 |                        |                                            |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           | FACW (-), FACW                     | FACW                           |                 |                        |                                            |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            | FACW, OBLW                         | OBLW                           |                 |                        |                                            |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          | FACW, FACW (+)                     | FACW                           |                 |                        |                                            |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   | OBLW                               | OBLW                           |                 |                        |                                            |

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|-------------|----------------------------------------------------|------------------------------------------------|------------------------------------|--------------------------------|-----------------|----------------------------------------|---------------------------------------------------------------------------------|
| RACO3       | <i>Ratibida columnifera</i>                        | <i>Ratibida columnifera</i>                    |                                    |                                | Y               | Eddleman (1984)                        | Did well on revegetated mined soils                                             |
| RATA        | <i>Ratibida tagetes</i>                            | <i>Ratibida tagetes</i>                        |                                    |                                |                 |                                        |                                                                                 |
| RHGL        | <i>Rhus glabra</i>                                 | <i>Rhus glabra</i>                             |                                    |                                | Y               | Squiers & Wistendahl (1977)            | Dominant in late succession                                                     |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i> | <i>Rhus radicans</i>                           |                                    |                                |                 |                                        |                                                                                 |
| RHTR        | <i>Rhus trilobata</i>                              | <i>Rhus trilobata</i>                          | FAC (?)                            | Not indicated                  | Y               | Eddleman (1984)                        | Did poorly on revegetated mined soils                                           |
| RICE        | <i>Ribes cereum</i>                                | <i>Ribes cereum</i>                            | FACU (?)                           | Not Indicated                  | Y               | Eddleman (1984)                        | Did poorly on revegetated mined soils                                           |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>        | <i>Ribes inebrians</i>                         |                                    |                                |                 |                                        |                                                                                 |
| RIIN2       | <i>Ribes inerme</i>                                | <i>Ribes inerme</i>                            | FAC, FACW (-)                      | FACW (-)                       |                 |                                        |                                                                                 |
| RILE        | <i>Ribes leptanthum</i>                            | <i>Ribes leptanthum</i>                        |                                    |                                |                 |                                        |                                                                                 |
| RIMO2       | <i>Ribes montigenum</i>                            | <i>Ribes montigenum</i>                        |                                    |                                |                 |                                        |                                                                                 |
| RIPI        | <i>Ribes pinetorum</i>                             | <i>Ribes pinetorum</i>                         |                                    |                                |                 |                                        |                                                                                 |
| RIWO        | <i>Ribes wolfii</i>                                | <i>Ribes wolfii</i>                            |                                    |                                |                 |                                        |                                                                                 |
| RONE        | <i>Robinia neomexicana</i>                         | <i>Robinia neomexicana</i>                     |                                    |                                |                 |                                        |                                                                                 |
| ROIS2       | <i>Rorippa islandica</i>                           | <i>Rorippa islandica</i>                       |                                    |                                |                 |                                        |                                                                                 |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                | <i>Rorippa nasturtium-aquaticum</i>            |                                    |                                |                 |                                        |                                                                                 |
| ROTE2       | <i>Rorippa teres</i>                               | <i>Rorippa obtusa</i>                          |                                    |                                |                 |                                        |                                                                                 |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>femaldiana</i>    | <i>Rorippa palustris</i> subsp. <i>glabra</i>  | FAC, OBLW                          | OBLW                           |                 |                                        |                                                                                 |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>       | <i>Rorippa palustris</i> subsp. <i>hispida</i> | FAC, OBLW                          | OBLW                           |                 |                                        |                                                                                 |
| ROSI2       | <i>Rorippa sinuata</i>                             | <i>Rorippa sinuata</i>                         | FACW, OBLW                         | OBLW                           |                 |                                        |                                                                                 |
| ROSY        | <i>Rorippa sylvestris</i>                          | <i>Rorippa sylvestris</i>                      | FACW, OBLW                         | OBLW                           |                 |                                        |                                                                                 |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>       | <i>Rorippa truncata</i>                        | FAC, FACW                          | Not Indicated                  |                 |                                        |                                                                                 |
| RONU        | <i>Rosa nutkana</i>                                | <i>Rosa nutkana</i>                            | FAC (?)                            | Not Indicated                  | Y               | Cholewa & Johnson (1983)               | Dominant in grazed areas of a <i>Pseudotsuga menziesii</i> community            |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>            | <i>Rosa woodsii</i> var. <i>arizonica</i>      | Upland, FAC (-)                    | FACU                           | Y               | Eddleman (1984); Tierney & Foxx (1982) | Did poorly on revegetated mined soils; Important species on waste disposal site |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>            | <i>Rosa woodsii</i> var. <i>fendleri</i>       | Upland, FAC (-)                    | FACU                           |                 |                                        |                                                                                 |
| RUPA        | <i>Rubus parviflorus</i>                           | <i>Rubus parviflorus</i>                       | FACU, FAC (+)                      | Not Indicated                  |                 |                                        |                                                                                 |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>          | <i>Rubus strigosus</i> var. <i>arizonicus</i>  | FACU, FACW                         | FAC                            |                 |                                        |                                                                                 |
| RUHI2       | <i>Rudbeckia hirta</i>                             | <i>Rudbeckia hirta</i>                         | FACU (-), FACU                     | FACU                           |                 |                                        |                                                                                 |

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|-------------|--------------------------------------------------------|----------------------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|-----------------------------------------------------------|
| RULA3       | <i>Rudbeckia laciniata</i>                             | <i>Rudbeckia laciniata</i>                               | FACU, FACW (+)                     | FACW (-)                       |                 |                        |                                                           |
| RUAC3       | <i>Rumex acetosella</i>                                | <i>Rumex acetosella</i>                                  | Upland, FACW                       | FACW                           |                 |                        |                                                           |
| RUCR        | <i>Rumex crispus</i>                                   | <i>Rumex crispus</i>                                     | FACU, FACW                         | FACW                           |                 |                        |                                                           |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex mexicanus</i>                                   | FAC (-), FACW                      | FACW                           |                 |                        |                                                           |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                | FACW (+), OBLW                     | OBLW                           |                 |                        |                                                           |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   |                                    |                                |                 |                        |                                                           |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             | FACU, FACW                         | FACW                           |                 |                        |                                                           |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    | FAC, FACW (+)                      | FACW                           |                 |                        |                                                           |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     |                                    |                                |                 |                        |                                                           |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      |                                    |                                |                 |                        |                                                           |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    | FACW (+)                           | FACW (+)                       |                 |                        |                                                           |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 | FACU, FAC                          | FAC (-)                        | Y               | Klinka et al. (1989)   | Characteristic of primary and secondary succession        |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  |                                    |                                |                 |                        |                                                           |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    |                                    |                                | Y               | Eddleman (1984)        | Did well on revegetated mined soils                       |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  |                                    |                                |                 |                        |                                                           |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              | FACU(-), FACW                      | FACW (*)                       |                 |                        |                                                           |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |                                    |                                |                 |                        |                                                           |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                |                                    |                                |                 |                        |                                                           |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             | Upland, FACU                       | Not Indicated                  |                 |                        |                                                           |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           | FAC, FACU (+)                      | FACU (+)                       | Y               | Jastrow et al. (1984a) | Dominant in mid-successional communities with sandy soils |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> | FACU (-), FACU                     | FACU (-)                       |                 |                        |                                                           |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              | FAC (-), FACW (-)                  | FAC (-)                        |                 |                        |                                                           |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         |                                    |                                | Y               | Eddleman (1984)        | Did poorly on revegetated mined soils                     |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           | Upland, FAC                        | Not Indicated                  |                 |                        |                                                           |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           |                                    |                                |                 |                        |                                                           |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              |                                    |                                |                 |                        |                                                           |
| SECO        | <i>Sedum cockerellii</i>                               | <i>Sedum cockerellii</i>                                 |                                    |                                |                 |                        |                                                           |
| SEAR3       | <i>Senecio arizonicus</i>                              | <i>Senecio arizonicus</i>                                |                                    |                                |                 |                        |                                                           |
| SEAT        | <i>Senecio atratus</i>                                 | <i>Senecio atratus</i>                                   |                                    |                                |                 |                        |                                                           |



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|-------------|-------------------------------------------------------|----------------------------------------------------|------------------------------------|--------------------------------|-----------------|-----------------------------------------|--------------------------------------------------------------|
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>        | <i>Senecio bigelovii</i> var. <i>bigelovii</i>     |                                    |                                |                 |                                         |                                                              |
| SECR        | <i>Senecio crassulus</i>                              | <i>Senecio crassulus</i>                           | FACU, OBLW                         | Not Available                  |                 |                                         |                                                              |
| SECY        | <i>Senecio cymbalarioides</i>                         | <i>Senecio cymbalarioides</i>                      | FACW (+), OBLW                     | Not Indicated                  |                 |                                         |                                                              |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>        | <i>Senecio douglasii</i> var. <i>longilobus</i>    |                                    |                                |                 |                                         |                                                              |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougalii</i>    | <i>Senecio eremophilus</i> var. <i>macdougalii</i> | Upland, OBLW                       | Not Indicated                  |                 |                                         |                                                              |
| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>                          |                                    |                                |                 |                                         |                                                              |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>                            |                                    |                                |                 |                                         |                                                              |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                      |                                    |                                |                 |                                         |                                                              |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                        |                                    |                                |                 |                                         |                                                              |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>                        |                                    |                                |                 |                                         |                                                              |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>                         |                                    |                                |                 |                                         |                                                              |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>                        | FACU, FACW                         | FACW                           |                 |                                         |                                                              |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>                         |                                    |                                |                 |                                         |                                                              |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>                        | FACW, OBLW                         | OBLW                           |                 |                                         |                                                              |
| SEWE2       | <i>Senecio wernerifolius</i>                          | <i>Senecio werneriaefolius</i>                     | Upland, FACU                       | Not Indicated                  |                 |                                         |                                                              |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                            |                                    |                                |                 |                                         |                                                              |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                          | FAC                                | FAC                            |                 |                                         |                                                              |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                           |                                    |                                | Y               | Squiers & Wistendahl (1977)             | Dominant in early succession                                 |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                        |                                    |                                |                 |                                         |                                                              |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                             |                                    |                                | Y               | Koeber (1979)                           | Dominant in early succession                                 |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                            | FAC, FACW (+)                      | FAC                            |                 |                                         |                                                              |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                           |                                    |                                |                 |                                         |                                                              |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                           |                                    |                                |                 |                                         |                                                              |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                             |                                    |                                |                 |                                         |                                                              |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                       | Upland, FAC                        | FAC                            | Y               | Koniak (1985); Allen & Knight (1984)    | Dominant in early-mid succession; Dominant colonizing weed   |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                            |                                    |                                |                 |                                         |                                                              |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                       |                                    |                                |                 |                                         |                                                              |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                       | OBLW                               | OBLW                           |                 |                                         |                                                              |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>                       | FACU, FACW                         | and, FACW                      |                 |                                         |                                                              |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystrix</i>                            |                                    |                                | Y               | Hessing & Johnson (1982); Koniak (1985) | Pioneer species on roadside; Dominant in late-mid succession |

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|-------------|-----------------------------------------------------------------|-------------------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|-----------------------------------------------|
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>              | <i>Smilacina racemosa</i>                             | FACU (-), FAC                      | FACU (-)                       |                 |                        |                                               |
| MAST4       | <i>Maianthemum stellatum</i>                                    | <i>Smilacina stellata</i>                             | FACU, FACW                         | FACU                           |                 |                        |                                               |
| SOAM        | <i>Solanum americanum</i>                                       | <i>Solanum americanum</i>                             | Upland, FACU                       | Not Indicated                  |                 |                        |                                               |
| SODO        | <i>Solanum douglasii</i>                                        | <i>Solanum douglasii</i>                              | FACU, FAC                          | FAC                            |                 |                        |                                               |
| SOEL        | <i>Solanum elaeagnifolium</i>                                   | <i>Solanum elaeagnifolium</i>                         |                                    |                                |                 |                        |                                               |
| SOJA        | <i>Solanum jamesii</i>                                          | <i>Solanum jamesii</i>                                |                                    |                                |                 |                        |                                               |
| SOPT3       | <i>Solanum ptychanthum</i>                                      | <i>Solanum nigrum</i>                                 | FACU (-), FACU (+)                 | FACU                           |                 |                        |                                               |
| SORO        | <i>Solanum rostratum</i>                                        | <i>Solanum rostratum</i>                              |                                    |                                |                 |                        |                                               |
| SOSA        | <i>Solanum sarrachoides</i>                                     | <i>Solanum sarachoides</i>                            |                                    |                                |                 |                        |                                               |
| SOTR        | <i>Solanum triflorum</i>                                        | <i>Solanum triflorum</i>                              |                                    |                                |                 |                        |                                               |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             | FACU (-), FACU (+)                 | FACU                           | Y               | Marks & Mohler (1985)  | Good invader in areas without seed banks      |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     | FACU, FACU (+)                     | FACU                           |                 |                        |                                               |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> | FACU, FACU (+)                     | FACU                           |                 |                        |                                               |
| SOMO        | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                |                                    |                                | Y               | Eddleman (1984)        | Did well on revegetated mined soils           |
| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          | FACU                               | FACU                           | Y               | Russell (1985)         | Frequent occurrence on revegetated coal-mines |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          |                                    |                                |                 |                        |                                               |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               |                                    |                                |                 |                        |                                               |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            |                                    |                                |                 |                        |                                               |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           |                                    |                                |                 |                        |                                               |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    | FACU (-), FACU                     | FACU                           |                 |                        |                                               |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         |                                    |                                |                 |                        |                                               |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  | FACU, FACW                         | FACW                           |                 |                        |                                               |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              |                                    |                                |                 |                        |                                               |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            |                                    |                                |                 |                        |                                               |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             |                                    |                                |                 |                        |                                               |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             | OBLW                               | OBLW                           |                 |                        |                                               |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> |                                    |                                |                 |                        |                                               |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         |                                    |                                | Y               | Eddleman (1984)        | Did poorly on revegetated mined soils         |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      |                                    |                                |                 |                        |                                               |

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|-------------|-----------------------------------------------------|-------------------------------------|------------------------------------|--------------------------------|-----------------|----------------------------------------|---------------------------------------------------------------------------------|
| SPIN2       | <i>Sphaeralcea incana</i>                           | <i>Sphaeralcea incana</i>           |                                    |                                |                 |                                        |                                                                                 |
| SPIN3       | <i>Sphenopholis intermedia</i>                      | <i>Sphenopholis intermedia</i>      |                                    |                                |                 |                                        |                                                                                 |
| SPAI        | <i>Sporobolus airoides</i>                          | <i>Sporobolus airoides</i>          | FAC (+), FAC (-)                   | FAC                            | Y               | Eddleman (1984)                        | Did well on revegetated mined soils                                             |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i> | <i>Sporobolus asper</i>             |                                    |                                |                 |                                        |                                                                                 |
| SPCO4       | <i>Sporobolus contractus</i>                        | <i>Sporobolus contractus</i>        |                                    |                                |                 |                                        |                                                                                 |
| SPCR        | <i>Sporobolus cryptandrus</i>                       | <i>Sporobolus cryptandrus</i>       | Upland, FAC (-)                    | FACU (-)                       | Y               | Eddleman (1984); Tierney & Foxx (1984) | Did poorly on revegetated mined soils; Important species on waste disposal site |
| SPNE        | <i>Sporobolus nealleyi</i>                          | <i>Sporobolus nealleyi</i>          |                                    |                                |                 |                                        |                                                                                 |
| SPT5        | <i>Sporobolus texanus</i>                           | <i>Sporobolus texanus</i>           | FAC                                | Not Indicated                  |                 |                                        |                                                                                 |
| STPA        | <i>Stachys palustris</i>                            | <i>Stachys palustris</i>            | FACW, OBLW                         | OBLW                           |                 |                                        |                                                                                 |
| STPI        | <i>Stanleya pinnata</i>                             | <i>Stanleya pinnata</i>             |                                    |                                |                 |                                        |                                                                                 |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                    | <i>Stellaria jamesiana</i>          |                                    |                                |                 |                                        |                                                                                 |
| STLO        | <i>Stellaria longifolia</i>                         | <i>Stellaria longifolia</i>         | FAC, OBLW                          | FAC                            |                 |                                        |                                                                                 |
| STLO2       | <i>Stellaria longipes</i>                           | <i>Stellaria longipes</i>           | FACU+B138 (-), OBLW                | FACW                           |                 |                                        |                                                                                 |
| STPA4       | <i>Stephanomeria pauciflora</i>                     | <i>Stephanomeria pauciflora</i>     |                                    |                                |                 |                                        |                                                                                 |
| STTE2       | <i>Stephanomeria tenuifolia</i>                     | <i>Stephanomeria tenuifolia</i>     |                                    |                                |                 |                                        |                                                                                 |
| ACNED       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>       | <i>Stipa columbiana</i>             |                                    |                                | Y               | Eddleman (1984)                        | Did well on revegetated mined soils                                             |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>       | <i>Stipa comata</i>                 |                                    |                                | Y               | Pinchak et al. (1986)                  | Dominant species in mined area                                                  |
| ACEM4       | <i>Achnatherum eminens</i>                          | <i>Stipa eminens</i>                |                                    |                                |                 |                                        |                                                                                 |
| ACLE9       | <i>Achnatherum lettermanii</i>                      | <i>Stipa lettermanii</i>            |                                    |                                |                 |                                        |                                                                                 |
| HENE5       | <i>Hesperostipa neomexicana</i>                     | <i>Stipa neomexicana</i>            |                                    |                                |                 |                                        |                                                                                 |
| ACRO7       | <i>Achnatherum robustum</i>                         | <i>Stipa robusta</i>                |                                    |                                |                 |                                        |                                                                                 |
| STCO6       | <i>Streptanthus cordatus</i>                        | <i>Streptanthus cordatus</i>        |                                    |                                |                 |                                        |                                                                                 |
| STAM2       | <i>Streptopus amplexifolius</i>                     | <i>Streptopus amplexifolius</i>     | Upland, OBLW                       | FAC                            |                 |                                        |                                                                                 |
| FRSP        | <i>Frasera speciosa</i>                             | <i>Swertia radiata</i>              |                                    |                                |                 |                                        |                                                                                 |
| SYOC        | <i>Symphoricarpos occidentalis</i>                  | <i>Symphoricarpos occidentalis</i>  |                                    |                                | Y               | Eddleman (1984)                        | Did poorly on revegetated mined soils                                           |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                    | <i>Symphoricarpos oreophilus</i>    |                                    |                                | Y               | Koniak (1985)                          | Dominant in early succession                                                    |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                   | <i>Symphoricarpos rotundifolius</i> |                                    |                                |                 |                                        |                                                                                 |
| TAPA3       | <i>Talinum parviflorum</i>                          | <i>Talinum parviflorum</i>          |                                    |                                |                 |                                        |                                                                                 |
| TAGA        | <i>Tamarix gallica</i>                              | <i>Tamarix gallica</i>              |                                    |                                |                 |                                        |                                                                                 |
| TACH2       | <i>Tamarix chinensis</i>                            | <i>Tamarix pentandra</i>            |                                    |                                |                 |                                        |                                                                                 |

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|-------------|-------------------------------------------------------------|------------------------------------------------------------|------------------------------------|--------------------------------|-----------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TALA2       | <i>Taraxacum laevigatum</i>                                 | <i>Taraxacum laevigatum</i>                                |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TAOF        | <i>Taraxacum officinale</i>                                 | <i>Taraxacum officinale</i>                                | FACU (+), FACU (-)                 | FACU                           | Y               | Leps & Stursa (1989); Lindsay & Bratton (1979); Russell (1985) | Dominant in mid-succession [in Czechoslovakia]; Dominant on mid successional disturbed grassy balds; Abundant occurrence on revegetated coal-mines |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i>                                |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i> var. <i>inermis</i>            |                                    |                                |                 |                                                                |                                                                                                                                                    |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>             | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | Upland, FAC                        | FACU (-)                       |                 |                                                                |                                                                                                                                                    |
| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      |                                    |                                |                 |                                                                |                                                                                                                                                    |
| THME        | <i>Thelesperma megapotamicum</i>                            | <i>Thelesperma megapotamicum</i>                           |                                    |                                |                 |                                                                |                                                                                                                                                    |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>        | <i>Thelesperma trifidum</i>                                |                                    |                                |                 |                                                                |                                                                                                                                                    |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i>  | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> | FACU (-), FACW                     | FACU (-)                       |                 |                                                                |                                                                                                                                                    |
| THWR        | <i>Thelypodium wrightii</i>                                 | <i>Thelypodium wrightii</i>                                |                                    |                                |                 |                                                                |                                                                                                                                                    |
| THMO6       | <i>Thermopsis montana</i>                                   | <i>Thermopsis montanum</i>                                 |                                    |                                |                 |                                                                |                                                                                                                                                    |
| THDI4       | <i>Thermopsis divaricarpa</i>                               | <i>Thermopsis pinetorum</i>                                |                                    |                                |                 |                                                                |                                                                                                                                                    |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>                | <i>Thlaspi alpestre</i>                                    |                                    | FACU (?)                       |                 |                                                                |                                                                                                                                                    |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>          | <i>Torreyochloa pauciflora</i>                             |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TOAN        | <i>Townsendia annua</i>                                     | <i>Townsendia annua</i>                                    |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TOEX        | <i>Townsendia eximia</i>                                    | <i>Townsendia eximia</i>                                   |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TOFO        | <i>Townsendia formosa</i>                                   | <i>Townsendia formosa</i>                                  |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TOIN        | <i>Townsendia incana</i>                                    | <i>Townsendia incana</i>                                   |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TOEX2       | <i>Townsendia exscapa</i>                                   | <i>Townsendia exscapa</i>                                  |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TRNE        | <i>Tragia nepetifolia</i>                                   | <i>Tragia nepetaefolia</i>                                 |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TRDU        | <i>Tragopogon dubius</i>                                    | <i>Tragopogon dubius</i>                                   |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TRPR        | <i>Tragopogon pratensis</i>                                 | <i>Tragopogon pratensis</i>                                |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                               |                                    |                                |                 |                                                                |                                                                                                                                                    |
| TRTE        | <i>Tribulus terrestris</i>                                  | <i>Tribulus terrestris</i>                                 |                                    |                                |                 |                                                                |                                                                                                                                                    |
| ERPU8       | <i>Erioneuron pulchellum</i>                                | <i>Tridens pulchellus</i>                                  |                                    |                                | Y               | Chew (1982)                                                    | Does well in grazed land                                                                                                                           |
| TRDA2       | <i>Trifolium dasyphyllum</i>                                | <i>Trifolium dasyphyllum</i>                               | Upland, FACU (-)                   | Not Indicated                  |                 |                                                                |                                                                                                                                                    |

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|-------------|------------------------------------------------------------|------------------------------------------------------|------------------------------------|--------------------------------|-----------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| TRHY        | <i>Trifolium hybridum</i>                                  | <i>Trifolium hybridum</i>                            | FACU (-), FAC                      | Not Indicated                  | Y               | Russell (1985)                                  | Abundant occurrence on revegetated coal-mines                                                 |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>            | <i>Trifolium lacerum</i>                             |                                    |                                |                 |                                                 |                                                                                               |
| TRPR2       | <i>Trifolium pratense</i>                                  | <i>Trifolium pratense</i>                            | FACU (-), FAC                      | Not Indicated                  | Y               | Carson & Barrett (1988); Russell (1985)         | Dominant in early succession; Frequent occurrence on revegetated coal-mines                   |
| TRCA5       | <i>Trifolium campestre</i>                                 | <i>Trifolium procumbens</i>                          |                                    |                                |                 |                                                 |                                                                                               |
| TRRE3       | <i>Trifolium repens</i>                                    | <i>Trifolium repens</i>                              | FACU (-), FAC                      | Not Indicated                  | Y               | Griffith & Smith (1990); Miller & Werner (1987) | Used as an indicator of Chlorine poisoning; Present in early succession, but as a subordinate |
| TRPE4       | <i>Triodanis perfoliata</i>                                | <i>Triodanis perfoliata</i>                          | Upland, FAC                        | FAC                            |                 |                                                 |                                                                                               |
| TRMO5       | <i>Trisetum montanum</i>                                   | <i>Trisetum montanum</i>                             |                                    |                                |                 |                                                 |                                                                                               |
| TRSP2       | <i>Trisetum spicatum</i>                                   | <i>Trisetum spicatum</i>                             |                                    |                                | Y               | Russell (1985)                                  | Frequent occurrence on revegetated coal-mines                                                 |
| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                               | OBLW                               | OBLW                           | Y               | Jastrow et al. (1984b)                          | Grew in slurry effluent runoff                                                                |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         | FACU, FACW                         | Not Indicated                  |                 |                                                 |                                                                                               |
| URGR        | <i>Urtica gracilentia</i>                                  | <i>Urtica gracilentia</i>                            |                                    |                                |                 |                                                 |                                                                                               |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               |                                    |                                |                 |                                                 |                                                                                               |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           | Not Indicated                      | Not Indicated                  |                 |                                                 |                                                                                               |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           |                                    |                                |                 |                                                 |                                                                                               |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    | FACU, FAC                          | Not Indicated                  |                 |                                                 |                                                                                               |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         | FACW, OBLW                         | OBLW                           |                 |                                                 |                                                                                               |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             |                                    |                                | Y               | Tierney & Foxx (1982)                           | Important species on waste disposal site                                                      |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         |                                    |                                |                 |                                                 |                                                                                               |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             | Upland, FACW                       | FAC                            |                 |                                                 |                                                                                               |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             |                                    |                                |                 |                                                 |                                                                                               |
| VEMA        | <i>Verbena macdougalii</i>                                 | <i>Verbena macdougalii</i>                           | Upland, FAC (-)                    | FACU (-)                       |                 |                                                 |                                                                                               |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              |                                    |                                |                 |                                                 |                                                                                               |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> | FACU (-), FAC                      | FAC                            | Y               | Ditsword et al. (1989)                          | Invades transmission-line construction sites                                                  |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            | OBLW                               | OBLW                           |                 |                                                 |                                                                                               |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             | FACU (?)                           | Not Indicated                  |                 |                                                 |                                                                                               |

## WETLAND CON'T

| USDA Symbol | USDA NRCS PLANTS                                    | Martin and Hutchins (1980)                       | National Wetland List (Reed 1988b) | N.M. Wetland List (Reed 1988a) | Disturbed Sites | Disturbance References | Comments on Disturbed Sites Growth       |
|-------------|-----------------------------------------------------|--------------------------------------------------|------------------------------------|--------------------------------|-----------------|------------------------|------------------------------------------|
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>    | <i>Veronica peregrina</i> var. <i>xalapensis</i> | FACU (-), OBLW                     | OBLW                           |                 |                        |                                          |
| VESE        | <i>Veronica serpyllifolia</i>                       | <i>Veronica serpyllifolia</i>                    | FAC, OBLW                          | FACW (-)                       |                 |                        |                                          |
| VEWO2       | <i>Veronica wormskjoldii</i>                        | <i>Veronica wormskjoldii</i>                     | FACU, FACW                         | FAC                            |                 |                        |                                          |
| VILE        | <i>Viburnum lentago</i>                             | <i>Viburnum lentago</i>                          |                                    |                                |                 |                        |                                          |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>        | <i>Vicia americana</i> var. <i>americana</i>     | FAC (?)                            | Not Indicated                  | Y               | Eddleman (1984)        | Did poorly on revegetated mined soils    |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>            | <i>Vicia americana</i> var. <i>linearis</i>      |                                    |                                |                 |                        |                                          |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>            | <i>Vicia americana</i> var. <i>minor</i>         |                                    |                                |                 |                        |                                          |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>    | <i>Vicia exigua</i>                              |                                    |                                |                 |                        |                                          |
| VILE3       | <i>Vicia leucophaea</i>                             | <i>Vicia leucophaea</i>                          |                                    |                                |                 |                        |                                          |
| VICO        | <i>Viguiera cordifolia</i>                          | <i>Viguiera cordifolia</i>                       |                                    |                                |                 |                        |                                          |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i> | <i>Viguiera multiflora</i>                       |                                    |                                |                 |                        |                                          |
| VIAD        | <i>Viola adunca</i>                                 | <i>Viola adunca</i>                              | FACU, FAC                          | FAC                            |                 |                        |                                          |
| VICA4       | <i>Viola canadensis</i>                             | <i>Viola canadensis</i>                          |                                    |                                |                 |                        |                                          |
| VISO        | <i>Viola sororia</i>                                | <i>Viola nephrophylla</i>                        | FACW, FACW (+)                     | FACW                           |                 |                        |                                          |
| VIPE2       | <i>Viola pedatifida</i>                             | <i>Viola pedatifida</i>                          | Upland, FACU                       | Not Indicated                  |                 |                        |                                          |
| VIAR2       | <i>Vitis arizonica</i>                              | <i>Vitis arizonica</i> var. <i>arizonica</i>     | FACU (-), FAC                      | FAC                            |                 |                        |                                          |
| VIVU        | <i>Vitis vulpina</i>                                | <i>Vitis vulpina</i>                             | FAC, FACW (-)                      | Not Indicated                  |                 |                        |                                          |
|             |                                                     | <i>Woodsia mexicana</i>                          |                                    |                                |                 |                        |                                          |
| WOOR        | <i>Woodsia oregana</i>                              | <i>Woodsia oregana</i>                           |                                    |                                |                 |                        |                                          |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i>    | <i>Xanthium strumarium</i> var. <i>canadense</i> | FAC (+), FAC (-)                   | FAC                            |                 |                        |                                          |
| YUAN2       | <i>Yucca angustissima</i>                           | <i>Yucca angustissima</i>                        |                                    |                                | Y               | Tierney & Foxx (1982)  | Important species on waste disposal site |
| YUBA        | <i>Yucca baccata</i>                                | <i>Yucca baccata</i>                             |                                    |                                |                 |                        |                                          |
| YUGL        | <i>Yucca glauca</i>                                 | <i>Yucca glauca</i>                              |                                    |                                |                 |                        |                                          |
| ZIGR        | <i>Zinnia grandiflora</i>                           | <i>Zinnia grandiflora</i>                        |                                    |                                |                 |                        |                                          |
| ZIEL2       | <i>Zygadenus elegans</i>                            | <i>Zygadenus elegans</i>                         |                                    |                                |                 |                        |                                          |

### Key for heading acronyms and abbreviations:

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

National Wetland List = P. B. Reed, *National List of Plant Species that Occur in Wetlands* (1988b).

N. M. Wetland List = P. B. Reed, *National List of Plant Species that Occur in Wetlands: New Mexico*, (1988a).



## FIRE AND FLOOD



Fireweed



## FIRE AND FLOOD

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Associated with Fire | Fire Reference       | Fire Comments                     | Flooded Areas | Flood References | Flood Comments                       |
|--------------|------------------------------------------------------|-------------------------------------------------|----------------------|----------------------|-----------------------------------|---------------|------------------|--------------------------------------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | Y                    | Thomas & Agee (1986) | Does well in post-fire succession |               |                  |                                      |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  |                      |                      |                                   |               |                  |                                      |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    |                      |                      |                                   |               |                  |                                      |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        |                      |                      |                                   |               |                  |                                      |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> |                      |                      |                                   |               |                  |                                      |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     |                      |                      |                                   |               |                  |                                      |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    |                      |                      |                                   |               |                  |                                      |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      |                      |                      |                                   |               |                  |                                      |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   |                      |                      |                                   |               |                  |                                      |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       |                      |                      |                                   |               |                  |                                      |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      |                      |                      |                                   |               |                  |                                      |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       |                      |                      |                                   |               |                  |                                      |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |                      |                      |                                   |               |                  |                                      |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    |                      |                      |                                   |               |                  |                                      |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        |                      |                      |                                   |               |                  |                                      |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   |                      |                      |                                   |               |                  |                                      |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     |                      |                      |                                   |               |                  |                                      |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |                      |                      |                                   |               |                  |                                      |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   |                      |                      |                                   |               |                  |                                      |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         |                      |                      |                                   |               |                  |                                      |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        |                      |                      |                                   |               |                  |                                      |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    |                      |                      |                                   |               |                  |                                      |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   |                      |                      |                                   | Y             | Ganskopp (1986)  | Does poorly under flooded conditions |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            |                      |                      |                                   |               |                  |                                      |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         |                      |                      |                                   |               |                  |                                      |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      |                      |                      |                                   |               |                  |                                      |
| AGPE         | <i>Agrostis perennans</i>                            | <i>Agrostis perennans</i>                       |                      |                      |                                   |               |                  |                                      |
| AGSC5        | <i>Agrostis scabra</i>                               | <i>Agrostis scabra</i>                          |                      |                      |                                   |               |                  |                                      |
| POVI9        | <i>Polypogon viridis</i>                             | <i>Agrostis semiverticillata</i>                |                      |                      |                                   |               |                  |                                      |

\* A key for heading acronyms and abbreviations is on the last page of this table.



## FIRE AND FLOOD CON'T

| USDA Symbol            | USDA NRCS PLANTS                                                                             | Martin and Hutchins (1980)                        | Associated with Fire | Fire Reference                               | Fire Comments                     | Flooded Areas | Flood References | Flood Comments |
|------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------|----------------------------------------------|-----------------------------------|---------------|------------------|----------------|
| AGST2                  | <i>Agrostis stolonifera</i>                                                                  | <i>Agrostis stolonifera</i>                       |                      |                                              |                                   |               |                  |                |
| AIAL                   | <i>Ailanthus altissima</i>                                                                   | <i>Ailanthus altissima</i>                        |                      |                                              |                                   |               |                  |                |
| ALCEO                  | <i>Allium cernuum</i> var. <i>obtusum</i>                                                    | <i>Allium cernuum</i> var. <i>obtusum</i>         |                      |                                              |                                   |               |                  |                |
| ALGE                   | <i>Allium geeyeri</i>                                                                        | <i>Allium geeyeri</i>                             |                      |                                              |                                   |               |                  |                |
| ALMA4                  | <i>Allium macropetalum</i>                                                                   | <i>Allium macropetalum</i>                        |                      |                                              |                                   |               |                  |                |
| ALTE                   | <i>Allium textile</i>                                                                        | <i>Allium textile</i>                             |                      |                                              |                                   |               |                  |                |
| ALOB2                  | <i>Alnus oblongifolia</i>                                                                    | <i>Alnus oblongifolia</i>                         |                      |                                              |                                   |               |                  |                |
| ALINT                  | <i>Alnus incana</i> ssp. <i>tenuifolia</i>                                                   | <i>Alnus tenuifolia</i>                           |                      |                                              |                                   |               |                  |                |
| ALAE                   | <i>Alopecurus aequalis</i>                                                                   | <i>Alopecurus aequalis</i>                        |                      |                                              |                                   |               |                  |                |
| ALRO3                  | <i>Alcea rosea</i>                                                                           | <i>Althaea rosea</i>                              |                      |                                              |                                   |               |                  |                |
| AMAL                   | <i>Amaranthus albus</i>                                                                      | <i>Amaranthus albus</i>                           |                      |                                              |                                   |               |                  |                |
| AMAL;<br>AMBL          | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                        | <i>Amaranthus graecizans</i>                      |                      |                                              |                                   |               |                  |                |
| AMHY                   | <i>Amaranthus hybridus</i>                                                                   | <i>Amaranthus hybridus</i>                        |                      |                                              |                                   |               |                  |                |
| AMHY2                  | <i>Amaranthus hypochondriacus</i> L.                                                         | <i>Amaranthus leucocarpus</i>                     |                      |                                              |                                   |               |                  |                |
| AMPA                   | <i>Amaranthus palmeri</i> S. Wats.                                                           | <i>Amaranthus palmeri</i>                         |                      |                                              |                                   |               |                  |                |
| AMPO2                  | <i>Amaranthus powellii</i> S. Wats.                                                          | <i>Amaranthus powellii</i>                        |                      |                                              |                                   |               |                  |                |
| AMRE                   | <i>Amaranthus retroflexus</i> L.                                                             | <i>Amaranthus retroflexus</i>                     |                      |                                              |                                   |               |                  |                |
| AMAR;<br>AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ;<br><i>Amaranthus bigelovii</i> ;<br><i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                         |                      |                                              |                                   |               |                  |                |
| AMAR2                  | <i>Ambrosia artemisiifolia</i>                                                               | <i>Ambrosia artemisiifolia</i>                    |                      |                                              |                                   |               |                  |                |
| AMPS                   | <i>Ambrosia psilostachya</i>                                                                 | <i>Ambrosia psilostachya</i>                      | Y                    | Collins & Uno (1983)                         | Does better on burned land        |               |                  |                |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                           | <i>Amelanchier bakeri</i>                         |                      |                                              |                                   |               |                  |                |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                           | <i>Amelanchier oreophila</i>                      |                      |                                              |                                   |               |                  |                |
| AMPU5                  | <i>Amelanchier pumila</i>                                                                    | <i>Amelanchier polycarpa</i>                      |                      |                                              |                                   |               |                  |                |
| AMUT                   | <i>Amelanchier utahensis</i>                                                                 | <i>Amelanchier utahensis</i>                      |                      |                                              |                                   |               |                  |                |
| AMCA6                  | <i>Amorpha canescens</i>                                                                     | <i>Amorpha canescens</i>                          | Y                    | Brock & Bock (1984); Abrams & Hulbert (1987) | Does well in post-fire succession |               |                  |                |
| AMFR                   | <i>Amorpha fruticosa</i>                                                                     | <i>Amorpha fruticosa</i> var. <i>angustifolia</i> |                      |                                              |                                   |               |                  |                |
| AMNA                   | <i>Amorpha nana</i>                                                                          | <i>Amorpha nana</i>                               |                      |                                              |                                   |               |                  |                |

## FIRE AND FLOOD CON'T

| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Associated with Fire | Fire Reference                                                           | Fire Comments                     | Flooded Areas | Flood References | Flood Comments |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|----------------------|--------------------------------------------------------------------------|-----------------------------------|---------------|------------------|----------------|
| ANAR        | <i>Anagallis arvensis</i>                                     | <i>Anagallis arvensis</i>                                     |                      |                                                                          |                                   |               |                  |                |
| ANMA        | <i>Anaphalis margaritacea</i>                                 | <i>Anaphalis margaritacea</i>                                 |                      |                                                                          |                                   |               |                  |                |
| BOBAB       | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>         | <i>Andropogon barbinodis</i>                                  |                      |                                                                          |                                   |               |                  |                |
| ANGE        | <i>Andropogon gerardii</i>                                    | <i>Andropogon gerardii</i>                                    | Y                    | Zimmerman & Kugera (1977); Foxx & Potter (1978)                          | Fire improves competitive ability |               |                  |                |
| ANHA        | <i>Andropogon hallii</i>                                      | <i>Andropogon hallii</i>                                      |                      |                                                                          |                                   |               |                  |                |
| BOSA        | <i>Bothriochloa saccharoides</i>                              | <i>Andropogon saccharoides</i>                                |                      |                                                                          |                                   |               |                  |                |
| SCSCS2      | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>          | <i>Andropogon scoparius</i>                                   | Y                    | Zimmerman & Kugera (1977); Abrams & Hulbert (1987); Foxx & Potter (1978) | Fire improved competitive ability |               |                  |                |
| BOSP3       | <i>Bothriochloa springfieldii</i>                             | <i>Andropogon springfieldii</i>                               |                      |                                                                          |                                   |               |                  |                |
| BOWR2       | <i>Bothriochloa wrightii</i>                                  | <i>Andropogon wrightii</i>                                    |                      |                                                                          |                                   |               |                  |                |
| ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>       | <i>Androsace septentrionalis</i> var. <i>subulifera</i>       |                      |                                                                          |                                   |               |                  |                |
| ANCY        | <i>Anemone cylindrica</i>                                     | <i>Anemone cylindrica</i>                                     |                      |                                                                          |                                   |               |                  |                |
| ANPI2       | <i>Angelica pinnata</i>                                       | <i>Angelica pinnata</i>                                       |                      |                                                                          |                                   |               |                  |                |
| ANCR2       | <i>Anoda cristata</i>                                         | <i>Anoda cristata</i> var. <i>digitata</i>                    |                      |                                                                          |                                   |               |                  |                |
| ANMA5       | <i>Antennaria marginata</i>                                   | <i>Antennaria marginata</i>                                   |                      |                                                                          |                                   |               |                  |                |
| ANPA4       | <i>Antennaria parvifolia</i>                                  | <i>Antennaria parvifolia</i>                                  |                      |                                                                          |                                   |               |                  |                |
| ANRO2       | <i>Antennaria rosea</i>                                       | <i>Antennaria rosea</i>                                       |                      |                                                                          |                                   |               |                  |                |
| ANRO3       | <i>Antennaria rosulata</i>                                    | <i>Antennaria rosulata</i>                                    |                      |                                                                          |                                   |               |                  |                |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               |                      |                                                                          |                                   |               |                  |                |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> |                      |                                                                          |                                   |               |                  |                |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            |                      |                                                                          |                                   |               |                  |                |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            |                      |                                                                          |                                   |               |                  |                |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     |                      |                                                                          |                                   |               |                  |                |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   |                      |                                                                          |                                   |               |                  |                |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   |                      |                                                                          |                                   |               |                  |                |

## FIRE AND FLOOD CON'T

| USDA Symbol | USDA NRCS PLANTS                                       | Martin and Hutchins (1980)                               | Associated with Fire | Fire Reference | Fire Comments | Flooded Areas | Flood References    | Flood Comments                               |
|-------------|--------------------------------------------------------|----------------------------------------------------------|----------------------|----------------|---------------|---------------|---------------------|----------------------------------------------|
| AQTR        | <i>Aquilegia tritemata</i>                             | <i>Aquilegia tritemata</i>                               |                      |                |               |               |                     |                                              |
| ARDI2       | <i>Arabis X divaricarpa</i>                            | <i>Arabis divaricarpa</i>                                |                      |                |               |               |                     |                                              |
| ARDR        | <i>Arabis drummondii</i>                               | <i>Arabis drummondii</i>                                 |                      |                |               |               |                     |                                              |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>            | <i>Arabis fendleri</i> var. <i>fendleri</i>              |                      |                |               |               |                     |                                              |
| ARGL        | <i>Arabis glabra</i>                                   | <i>Arabis glabra</i>                                     |                      |                |               |               |                     |                                              |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>           | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>             |                      |                |               |               |                     |                                              |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>       | <i>Arabis holboellii</i> var. <i>retrofracta</i>         |                      |                |               |               |                     |                                              |
| ARPE2       | <i>Arabis perennans</i>                                | <i>Arabis perennans</i>                                  |                      |                |               |               |                     |                                              |
| ARRA        | <i>Aralia racemosa</i>                                 | <i>Aralia racemosa</i>                                   |                      |                |               |               |                     |                                              |
| ARDI3       | <i>Arceuthobium divaricatum</i>                        | <i>Arceuthobium divaricatum</i>                          |                      |                |               |               |                     |                                              |
| ARDO        | <i>Arceuthobium douglasii</i>                          | <i>Arceuthobium douglasii</i>                            |                      |                |               |               |                     |                                              |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodium</i> | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodium</i> |                      |                |               |               |                     |                                              |
| ARPU5       | <i>Arctostaphylos pungens</i>                          | <i>Arctostaphylos pungens</i>                            |                      |                |               |               |                     |                                              |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                         | <i>Arctostaphylos uva-ursi</i>                           |                      |                |               |               |                     |                                              |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>          | <i>Arenaria confusa</i>                                  |                      |                |               |               |                     |                                              |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>          | <i>Arenaria fendleri</i> var. <i>brevifolia</i>          |                      |                |               |               |                     |                                              |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>        | <i>Arenaria fendleri</i> var. <i>fendleri</i>            |                      |                |               |               |                     |                                              |
| MOMA3       | <i>Moehringia macrophylla</i>                          | <i>Arenaria macrophylla</i>                              |                      |                |               |               |                     |                                              |
| ARAD        | <i>Aristida adscensionis</i>                           | <i>Aristida adscensionis</i>                             |                      |                |               |               |                     |                                              |
| ARAR6       | <i>Aristida arizonica</i>                              | <i>Aristida arizonica</i>                                |                      |                |               |               |                     |                                              |
| ARHA3       | <i>Aristida havardii</i>                               | <i>Aristida barbata</i>                                  |                      |                |               |               |                     |                                              |
| ARDI5       | <i>Aristida divaricata</i>                             | <i>Aristida divaricata</i>                               |                      |                |               |               |                     |                                              |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>       | <i>Aristida fendleriana</i>                              |                      |                |               | Y             | Loan & Bloom (1990) | Tolerant of flooded and submerged conditions |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>         | <i>Aristida longiseta</i>                                |                      |                |               |               |                     |                                              |
| ARPU9       | <i>Aristida purpurea</i>                               | <i>Aristida purpurea</i>                                 |                      |                |               |               |                     |                                              |
| ARBI3       | <i>Artemisia bigelovii</i>                             | <i>Artemisia bigelovii</i>                               |                      |                |               |               |                     |                                              |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>       | <i>Artemisia campestris</i> subsp. <i>pacifica</i>       |                      |                |               |               |                     |                                              |
| ARCA13      | <i>Artemisia cana</i>                                  | <i>Artemisia cana</i>                                    |                      |                |               |               |                     |                                              |
| ARCA14      | <i>Artemisia carruthii</i>                             | <i>Artemisia carruthii</i>                               |                      |                |               |               |                     |                                              |

## FIRE AND FLOOD CON'T

| USDA Symbol | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                             | Associated with Fire | Fire Reference | Fire Comments | Flooded Areas | Flood References | Flood Comments |
|-------------|------------------------------------------------------|--------------------------------------------------------|----------------------|----------------|---------------|---------------|------------------|----------------|
| ARDR4       | <i>Artemisia dracunculus</i>                         | <i>Artemisia dracunculus</i>                           |                      |                |               |               |                  |                |
| ARFI2       | <i>Artemisia filifolia</i>                           | <i>Artemisia filifolia</i>                             |                      |                |               |               |                  |                |
| ARFR3       | <i>Artemisia franserioides</i>                       | <i>Artemisia franserioides</i>                         |                      |                |               |               |                  |                |
| ARFR4       | <i>Artemisia frigida</i>                             | <i>Artemisia frigida</i>                               |                      |                |               |               |                  |                |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>      | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>      |                      |                |               |               |                  |                |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> |                      |                |               |               |                  |                |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>    |                      |                |               |               |                  |                |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>     | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>    |                      |                |               |               |                  |                |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>    | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>     |                      |                |               |               |                  |                |
| ARTR2       | <i>Artemisia tridentata</i>                          | <i>Artemisia tridentata</i>                            |                      |                |               |               |                  |                |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>       | <i>Asclepias asperula</i> subsp. <i>asperula</i>       |                      |                |               |               |                  |                |
| ASEN        | <i>Asclepias engelmanniana</i>                       | <i>Asclepias engelmanniana</i>                         |                      |                |               |               |                  |                |
| ASIN14      | <i>Asclepias involucrata</i>                         | <i>Asclepias involucrata</i>                           |                      |                |               |               |                  |                |
| ASMA        | <i>Asclepias macrotis</i>                            | <i>Asclepias macrotis</i>                              |                      |                |               |               |                  |                |
| ASSP        | <i>Asclepias speciosa</i>                            | <i>Asclepias speciosa</i>                              |                      |                |               |               |                  |                |
| ASSU2       | <i>Asclepias subverticillata</i>                     | <i>Asclepias subverticillata</i>                       |                      |                |               |               |                  |                |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>       | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>     |                      |                |               |               |                  |                |
| ASVI        | <i>Asclepias viridiflora</i>                         | <i>Asclepias viridiflora</i>                           |                      |                |               |               |                  |                |
| ASOF        | <i>Asparagus officinalis</i>                         | <i>Asparagus officinalis</i>                           |                      |                |               |               |                  |                |
| ASTR2       | <i>Asplenium trichomanes</i>                         | <i>Asplenium trichomanes</i>                           |                      |                |               |               |                  |                |
| ASER3       | <i>Aster ericoides</i>                               | <i>Aster ericoides</i>                                 |                      |                |               |               |                  |                |
| ASFE        | <i>Aster fendleri</i>                                | <i>Aster fendleri</i>                                  |                      |                |               |               |                  |                |
| ASFO        | <i>Aster foliaceus</i>                               | <i>Aster foliaceus</i>                                 |                      |                |               |               |                  |                |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>         | <i>Aster glaucodes</i> var. <i>glaucodes</i>           |                      |                |               |               |                  |                |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>       | <i>Aster hesperius</i>                                 |                      |                |               |               |                  |                |
| ASLA5       | <i>Aster laevis</i>                                  | <i>Aster laevis</i>                                    |                      |                |               |               |                  |                |
| ASNO        | <i>Aster novae-angliae</i>                           | <i>Aster novae-angliae</i>                             |                      |                |               |               |                  |                |
| ASOC        | <i>Aster occidentalis</i>                            | <i>Aster occidentalis</i>                              |                      |                |               |               |                  |                |

# FIRE AND FLOOD CON'T

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|-------------|-------------------------------------------------------------|-----------------------------------------------------------|----------------------|----------------|---------------|---------------|------------------|----------------|
| ALPA14      | <i>Almutaster pauciflorus</i>                               | <i>Aster pauciflorus</i>                                  |                      |                |               |               |                  |                |
| ASPR2       | <i>Aster praealtus</i>                                      | <i>Aster praealtus</i>                                    |                      |                |               |               |                  |                |
| ASAG2       | <i>Astragalus agrestis</i>                                  | <i>Astragalus agrestis</i>                                |                      |                |               |               |                  |                |
| ASAM5       | <i>Astragalus amphioxys</i>                                 | <i>Astragalus amphioxys</i>                               |                      |                |               |               |                  |                |
| ASBI2       | <i>Astragalus bisulcatus</i>                                | <i>Astragalus bisulcatus</i>                              |                      |                |               |               |                  |                |
| ASCR2       | <i>Astragalus crassicaupus</i>                              | <i>Astragalus crassicaupus.</i>                           |                      |                |               |               |                  |                |
| ASEM2       | <i>Astragalus emoryanus</i>                                 | <i>Astragalus emoryanus</i>                               |                      |                |               |               |                  |                |
| ASFL2       | <i>Astragalus flexuosus</i>                                 | <i>Astragalus flexuosus</i>                               |                      |                |               |               |                  |                |
| ASGR3       | <i>Astragalus gracilis</i>                                  | <i>Astragalus gracilis</i>                                |                      |                |               |               |                  |                |
| ASHU2       | <i>Astragalus humistratus</i>                               | <i>Astragalus humistratus</i>                             |                      |                |               |               |                  |                |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>      | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     |                      |                |               |               |                  |                |
| ASLE8       | <i>Astragalus lentiginosus</i>                              | <i>Astragalus lentiginosus</i>                            |                      |                |               |               |                  |                |
| ASLO3       | <i>Astragalus lonchocarpus</i>                              | <i>Astragalus lonchocarpus</i>                            |                      |                |               |               |                  |                |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i>   | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> |                      |                |               |               |                  |                |
| ASMO7       | <i>Astragalus mollissimus</i>                               | <i>Astragalus mollissimus</i>                             |                      |                |               |               |                  |                |
| ASPR5       | <i>Astragalus praelongus</i>                                | <i>Astragalus praelongus</i>                              |                      |                |               |               |                  |                |
| ASSH3       | <i>Astragalus shortianus</i>                                | <i>Astragalus shortianus</i>                              |                      |                |               |               |                  |                |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>         | <i>Athyrium filix-femina</i> var. <i>californicum</i>     |                      |                |               |               |                  |                |
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                                 |                      |                |               |               |                  |                |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                                    |                      |                |               |               |                  |                |
| BABI3       | <i>Bahia bitemata</i>                                       | <i>Bahia bitemata</i>                                     |                      |                |               |               |                  |                |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                                     |                      |                |               |               |                  |                |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                                  |                      |                |               |               |                  |                |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                                 |                      |                |               |               |                  |                |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                               |                      |                |               |               |                  |                |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                                |                      |                |               |               |                  |                |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                              |                      |                |               |               |                  |                |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                                  |                      |                |               |               |                  |                |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                                    |                      |                |               |               |                  |                |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                                 |                      |                |               |               |                  |                |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                      |                      |                |               |               |                  |                |

## FIRE AND FLOOD CON'T

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|-------------|-----------------------------------|-----------------------------------------------------|----------------------|----------------|---------------|---------------|------------------|----------------|
| BEPL        | <i>Besseya plantaginea</i>        | <i>Besseya plantaginea</i>                          |                      |                |               |               |                  |                |
| BEOC2       | <i>Betula occidentalis</i>        | <i>Betula occidentalis</i>                          |                      |                |               |               |                  |                |
| BIBI        | <i>Bidens bigelovii</i>           | <i>Bidens bigelovii</i>                             |                      |                |               |               |                  |                |
| BIBI7       | <i>Bidens bipinnata</i>           | <i>Bidens bipinnata</i> var. <i>bipinnata</i>       |                      |                |               |               |                  |                |
| BICE        | <i>Bidens cernua</i>              | <i>Bidens cernua</i>                                |                      |                |               |               |                  |                |
| BITR        | <i>Bidens tripartita</i>          | <i>Bidens cosmosa</i>                               |                      |                |               |               |                  |                |
| BIFR        | <i>Bidens frondosa</i>            | <i>Bidens frondosa</i>                              |                      |                |               |               |                  |                |
| BLTR        | <i>Blepharoneuron tricholepis</i> | <i>Blepharoneuron tricholepis</i>                   |                      |                |               |               |                  |                |
| BOCO2       | <i>Boerhavia coulteri</i>         | <i>Boerhaavia coulteri</i>                          |                      |                |               |               |                  |                |
| BOMU        | <i>Botrychium multifidum</i>      | <i>Botrychium multifidum</i> subsp. <i>coulteri</i> |                      |                |               |               |                  |                |
| BOAR        | <i>Bouteloua aristidoides</i>     | <i>Bouteloua aristidoides</i>                       |                      |                |               |               |                  |                |
| BOBA2       | <i>Bouteloua barbata</i>          | <i>Bouteloua barbata</i>                            |                      |                |               |               |                  |                |
| BOCU        | <i>Bouteloua curtipendula</i>     | <i>Bouteloua curtipendula</i>                       |                      |                |               |               |                  |                |
| BOER4       | <i>Bouteloua eriopoda</i>         | <i>Bouteloua eriopoda</i>                           |                      |                |               |               |                  |                |
| BOGR2       | <i>Bouteloua gracilis</i>         | <i>Bouteloua gracilis</i>                           |                      |                |               |               |                  |                |
| BOHI2       | <i>Bouteloua hirsuta</i>          | <i>Bouteloua hirsuta</i>                            |                      |                |               |               |                  |                |
| BOSI2       | <i>Bouteloua simplex</i>          | <i>Bouteloua simplex</i>                            |                      |                |               |               |                  |                |
| BRJU        | <i>Brassica juncea</i>            | <i>Brassica juncea</i>                              |                      |                |               |               |                  |                |
| BRNI        | <i>Brassica nigra</i>             | <i>Brassica nigra</i>                               |                      |                |               |               |                  |                |
| BRBE        | <i>Brickellia betonicifolia</i>   | <i>Brickellia betonicaefolia</i>                    |                      |                |               |               |                  |                |
| BRBR2       | <i>Brickellia brachyphylla</i>    | <i>Brickellia brachyphylla</i>                      |                      |                |               |               |                  |                |
| BRCA3       | <i>Brickellia californica</i>     | <i>Brickellia californica</i>                       |                      |                |               |               |                  |                |
| BRFE        | <i>Brickellia fendleri</i>        | <i>Brickellia fendleri</i>                          |                      |                |               |               |                  |                |
| BRGR        | <i>Brickellia grandiflora</i>     | <i>Brickellia grandiflora</i>                       |                      |                |               |               |                  |                |
| BRAN        | <i>Bromus anomalus</i>            | <i>Bromus anomalus</i>                              |                      |                |               |               |                  |                |
| BRCA6       | <i>Bromus catharticus</i>         | <i>Bromus catharticus</i>                           |                      |                |               |               |                  |                |
| BRCI2       | <i>Bromus ciliatus</i>            | <i>Bromus ciliatus</i>                              |                      |                |               |               |                  |                |
| BRFR2       | <i>Bromus frondosus</i>           | <i>Bromus frondosus</i>                             |                      |                |               |               |                  |                |
| BRIN2       | <i>Bromus inermis</i>             | <i>Bromus inermis</i>                               |                      |                |               |               |                  |                |
| BRJA        | <i>Bromus japonicus</i>           | <i>Bromus japonicus</i>                             |                      |                |               |               |                  |                |
| BRLA6       | <i>Bromus lanatipes</i>           | <i>Bromus lanatipes</i>                             |                      |                |               |               |                  |                |
| BRMA4       | <i>Bromus marginatus</i>          | <i>Bromus marginatus</i>                            |                      |                |               |               |                  |                |
| BRKA2       | <i>Bromus kalmii</i>              | <i>Bromus purgans</i>                               |                      |                |               |               |                  |                |

# FIRE AND FLOOD CON'T

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|-------------|--------------------------------|--------------------------------|----------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|----------------|
| BRTE        | <i>Bromus tectorum</i>         | <i>Bromus tectorum</i>         | Y                    | West & Hassan (1985); Melgoza et al. (1990); Pierson & Mack (1990); Hassan & West (1986) | Dominant in early post-fire succession; same; Does best on sites of strong disturbance; Dominant in early post-fire succession |               |                  |                |
| BUDA        | <i>Buchloe dactyloides</i>     | <i>Buchloe dactyloides</i>     |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAGU        | <i>Calochortus gunnisonii</i>  | <i>Calochortus gunnisonii</i>  |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CANU3       | <i>Calochortus nuttallii</i>   | <i>Calochortus nuttallii</i>   |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAHA14      | <i>Calylophus hartwegii</i>    | <i>Calylophus hartwegii</i>    |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CABU        | <i>Calypso bulbosa</i>         | <i>Calypso bulbosa</i>         |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAMI2       | <i>Camelina microcarpa</i>     | <i>Camelina microcarpa</i>     |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAPA10      | <i>Campanula parryi</i>        | <i>Campanula parryi</i>        |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CARO2       | <i>Campanula rotundifolia</i>  | <i>Campanula rotundifolia</i>  |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CABU2       | <i>Capsella bursa-pastoris</i> | <i>Capsella bursa-pastoris</i> |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CACO6       | <i>Cardamine cordifolia</i>    | <i>Cardamine cordifolia</i>    |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CADR        | <i>Cardaria draba</i>          | <i>Cardaria draba</i>          |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CANU4       | <i>Carduus nutans</i>          | <i>Carduus nutans</i>          |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAAQ        | <i>Carex aquatilis</i>         | <i>Carex aquatilis</i>         |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CABE3       | <i>Carex bella</i>             | <i>Carex bella</i>             |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CABO2       | <i>Carex bolanderi</i>         | <i>Carex bolanderi</i>         |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CABR10      | <i>Carex brevior</i>           | <i>Carex brevior</i>           |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CACA11      | <i>Carex canescens</i>         | <i>Carex canescens</i>         |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CADO2       | <i>Carex douglasii</i>         | <i>Carex douglasii</i>         |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CADU6       | <i>Carex duriuscula</i>        | <i>Carex eleocharis</i>        |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAMI7       | <i>Carex microptera</i>        | <i>Carex festivella</i>        |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAFO3       | <i>Carex foenea</i>            | <i>Carex foenea</i>            |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAGE        | <i>Carex geophila</i>          | <i>Carex geophila</i>          |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAHY4       | <i>Carex hystericina</i>       | <i>Carex hystericina</i>       |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAIN11      | <i>Carex interior</i>          | <i>Carex interior</i>          |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CALA30      | <i>Carex lanuginosa</i>        | <i>Carex lanuginosa</i>        |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CANE2       | <i>Carex nebraskensis</i>      | <i>Carex nebraskensis</i>      |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAOC2       | <i>Carex occidentalis</i>      | <i>Carex occidentalis</i>      |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CAPR5       | <i>Carex praegracilis</i>      | <i>Carex praegracilis</i>      |                      |                                                                                          |                                                                                                                                |               |                  |                |
| CASC11      | <i>Carex scoparia</i>          | <i>Carex scoparia</i>          |                      |                                                                                          |                                                                                                                                |               |                  |                |

## FIRE AND FLOOD CON'T

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|-------------|-------------------------------------------------------|-------------------------------------------------------|----------------------|-----------------------|-------------------------------------------|---------------|------------------|----------------|
| CAST5       | <i>Carex stipata</i>                                  | <i>Carex stipata</i>                                  |                      |                       |                                           |               |                  |                |
| CAXE        | <i>Carex xerantica</i>                                | <i>Carex xerantica</i>                                |                      |                       |                                           |               |                  |                |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>         | <i>Castilleja confusa</i>                             |                      |                       |                                           |               |                  |                |
| CAIN14      | <i>Castilleja integra</i>                             | <i>Castilleja integra</i>                             | Y                    | Fox & Potter (1978)   | Did well in post-fire succession          |               |                  |                |
| CALI4       | <i>Castilleja linariifolia</i>                        | <i>Castilleja linariaefolia</i>                       |                      |                       |                                           |               |                  |                |
| CALI5       | <i>Castilleja lineata</i>                             | <i>Castilleja lineata</i>                             |                      |                       |                                           |               |                  |                |
| CAMI12      | <i>Castilleja miniata</i>                             | <i>Castilleja miniata</i>                             |                      |                       |                                           |               |                  |                |
| CAMI13      | <i>Castilleja minor</i>                               | <i>Castilleja minor</i>                               |                      |                       |                                           |               |                  |                |
| CARH4       | <i>Castilleja rhexiifolia</i>                         | <i>Castilleja rhexifolia</i>                          |                      |                       |                                           |               |                  |                |
| CEFE        | <i>Ceanothus fendleri</i>                             | <i>Ceanothus fendleri</i>                             |                      |                       |                                           |               |                  |                |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>        | <i>Celtis reticulata</i>                              |                      |                       |                                           |               |                  |                |
| CEEC        | <i>Cenchrus echinatus</i>                             | <i>Cenchrus echinatus</i>                             |                      |                       |                                           |               |                  |                |
| CEIN4       | <i>Cenchrus incertus</i>                              | <i>Cenchrus pauciflorus</i>                           |                      |                       |                                           |               |                  |                |
| CECA3       | <i>Centaurium calycosum</i>                           | <i>Centaurium calycosum</i>                           |                      |                       |                                           |               |                  |                |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                              |                      |                       |                                           |               |                  |                |
| CEBR3       | <i>Cerastium brachypodum</i>                          | <i>Cerastium brachypodum</i>                          |                      |                       |                                           |               |                  |                |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                             |                      |                       |                                           |               |                  |                |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | Y                    | Young & Bailey (1975) | Production improved by controlled burning |               |                  |                |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> |                      |                       |                                           |               |                  |                |
| CHCO        | <i>Chamaesaracha coniodes</i>                         | <i>Chamaesaracha conioides</i>                        |                      |                       |                                           |               |                  |                |
| CHCO2       | <i>Chamaesaracha coronopus</i>                        | <i>Chamaesaracha coronopus</i>                        |                      |                       |                                           |               |                  |                |
| CHFE        | <i>Cheilanthes feei</i>                               | <i>Cheilanthes feei</i>                               |                      |                       |                                           |               |                  |                |
| CHFE2       | <i>Cheilanthes fendleri</i>                           | <i>Cheilanthes fendleri</i>                           |                      |                       |                                           |               |                  |                |
| CHTO2       | <i>Cheilanthes tomentosa</i>                          | <i>Cheilanthes tomentosa</i>                          |                      |                       |                                           |               |                  |                |
| CHEA        | <i>Cheilanthes eatonii</i>                            | <i>Cheilanthes eatonii</i>                            |                      |                       |                                           |               |                  |                |
| CHAL6       | <i>Chenopodium albescens</i>                          | <i>Chenopodium albescens</i>                          |                      |                       |                                           |               |                  |                |
| CHAL7       | <i>Chenopodium album</i>                              | <i>Chenopodium album</i>                              |                      |                       |                                           |               |                  |                |
| CHBE4       | <i>Chenopodium berlandieri</i>                        | <i>Chenopodium berlandieri</i>                        |                      |                       |                                           |               |                  |                |
| CHCA4       | <i>Chenopodium capitatum</i>                          | <i>Chenopodium capitatum</i>                          |                      |                       |                                           |               |                  |                |
| CHCY        | <i>Chenopodium cycloides</i>                          | <i>Chenopodium cycloides</i>                          |                      |                       |                                           |               |                  |                |



## FIRE AND FLOOD CON'T

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|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------|---------------------|----------------------------------|---------------|------------------|----------------|
| CHDE        | <i>Chenopodium desiccatum</i>                                                          | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>           |                      |                     |                                  |               |                  |                |
| CHPR5       | <i>Chenopodium pratericola</i>                                                         | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i>      |                      |                     |                                  |               |                  |                |
| CHFR3       | <i>Chenopodium fremontii</i>                                                           | <i>Chenopodium fremontii</i>                                   |                      |                     |                                  |               |                  |                |
| CHSI2       | <i>Chenopodium simplex</i>                                                             | <i>Chenopodium gigantospermum</i>                              |                      |                     |                                  |               |                  |                |
| CHGL3       | <i>Chenopodium glaucum</i>                                                             | <i>Chenopodium glaucum</i>                                     |                      |                     |                                  |               |                  |                |
| CHGR2       | <i>Chenopodium graveolens</i>                                                          | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>         | Y                    | Fox & Potter (1978) | Did well in post-fire succession |               |                  |                |
| CHIN2       | <i>Chenopodium incanum</i>                                                             | <i>Chenopodium incanum</i>                                     |                      |                     |                                  |               |                  |                |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                                        | <i>Chenopodium leptophyllum</i>                                |                      |                     |                                  |               |                  |                |
| CHRU        | <i>Chenopodium rubrum</i>                                                              | <i>Chenopodium rubrum</i>                                      |                      |                     |                                  |               |                  |                |
| CHWA        | <i>Chenopodium watsonii</i>                                                            | <i>Chenopodium watsonii</i>                                    |                      |                     |                                  |               |                  |                |
| CHUM        | <i>Chimaphila umbellata</i>                                                            | <i>Chimaphila umbellata</i>                                    |                      |                     |                                  |               |                  |                |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         |                      |                     |                                  |               |                  |                |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      |                      |                     |                                  |               |                  |                |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         |                      |                     |                                  |               |                  |                |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      |                      |                     |                                  |               |                  |                |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           |                      |                     |                                  |               |                  |                |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             |                      |                     |                                  |               |                  |                |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> |                      |                     |                                  |               |                  |                |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        |                      |                     |                                  |               |                  |                |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          |                      |                     |                                  |               |                  |                |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    |                      |                     |                                  |               |                  |                |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                                            | <i>Cirsium ochrocentrum</i>                                    |                      |                     |                                  |               |                  |                |
| CIPA5       | <i>Cirsium pallidum</i>                                                                | <i>Cirsium pallidum</i>                                        |                      |                     |                                  |               |                  |                |
| CIPA        | <i>Cirsium parryi</i>                                                                  | <i>Cirsium parryi</i>                                          |                      |                     |                                  |               |                  |                |
| CICA10      | <i>Cirsium calcareum</i>                                                               | <i>Cirsium pulchellum</i>                                      |                      |                     |                                  |               |                  |                |
| CIUN        | <i>Cirsium undulatum</i>                                                               | <i>Cirsium undulatum</i>                                       |                      |                     |                                  |               |                  |                |
| CIVU        | <i>Cirsium vulgare</i>                                                                 | <i>Cirsium vulgare</i>                                         |                      |                     |                                  |               |                  |                |
| CLDR        | <i>Clematis drummondii</i>                                                             | <i>Clematis drummondii</i>                                     |                      |                     |                                  |               |                  |                |

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| CLLI2       | <i>Clematis ligusticifolia</i>                    | <i>Clematis ligusticifolia</i>                        |                      |                     |                                  |               |                  |                |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i> | <i>Clematis pseudoalpina</i>                          |                      |                     |                                  |               |                  |                |
| CLSE        | <i>Cleome serrulata</i>                           | <i>Cleome serrulata</i>                               |                      |                     |                                  |               |                  |                |
| CLVU        | <i>Clinopodium vulgare</i>                        | <i>Clinopodium vulgare</i>                            |                      |                     |                                  |               |                  |                |
| COLI2       | <i>Collomia linearis</i>                          | <i>Collomia linearis</i>                              |                      |                     |                                  |               |                  |                |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>     | <i>Comandra pallida</i>                               |                      |                     |                                  |               |                  |                |
| CODI4       | <i>Commelina dianthifolia</i>                     | <i>Commelina dianthifolia</i>                         | Y                    | Fox & Potter (1978) | Did well in post-fire succession |               |                  |                |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>     | <i>Conopholis mexicana</i>                            |                      |                     |                                  |               |                  |                |
| COAR4       | <i>Convolvulus arvensis</i>                       | <i>Convolvulus arvensis</i>                           |                      |                     |                                  |               |                  |                |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>       | <i>Convolvulus sepium</i>                             |                      |                     |                                  |               |                  |                |
| COCA5       | <i>Conyza canadensis</i>                          | <i>Conyza canadensis</i>                              |                      |                     |                                  |               |                  |                |
| COMA4       | <i>Corallorhiza maculata</i>                      | <i>Corallorhiza maculata</i>                          |                      |                     |                                  |               |                  |                |
| COST        | <i>Corallorhiza striata</i>                       | <i>Corallorhiza striata</i>                           |                      |                     |                                  |               |                  |                |
| COWR2       | <i>Cordylanthus wrightii</i>                      | <i>Cordylanthus wrightii</i>                          |                      |                     |                                  |               |                  |                |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i>  | <i>Coreopsis cardaminefolia</i>                       |                      |                     |                                  |               |                  |                |
| COTI3       | <i>Coreopsis tinctoria</i>                        | <i>Coreopsis tinctoria</i>                            |                      |                     |                                  |               |                  |                |
| COSA        | <i>Coriandrum sativum</i>                         | <i>Coriandrum sativum</i>                             |                      |                     |                                  |               |                  |                |
| COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i>         | <i>Cornus stolonifera</i>                             |                      |                     |                                  |               |                  |                |
| COAU2       | <i>Corydalis aurea</i>                            | <i>Corydalis aurea</i>                                |                      |                     |                                  |               |                  |                |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>    | <i>Coryphantha vivipara</i>                           |                      |                     |                                  |               |                  |                |
| COPA12      | <i>Cosmos parviflorus</i>                         | <i>Cosmos parviflorus</i>                             |                      |                     |                                  |               |                  |                |
| CRER        | <i>Crataegus erythropoda</i>                      | <i>Crataegus erythropoda</i>                          |                      |                     |                                  |               |                  |                |
| CRTE4       | <i>Croton texensis</i>                            | <i>Croton texensis</i>                                |                      |                     |                                  |               |                  |                |
| CRFE3       | <i>Cryptantha fendleri</i>                        | <i>Cryptantha fendleri</i>                            |                      |                     |                                  |               |                  |                |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>     | <i>Cryptantha jamesii</i>                             |                      |                     |                                  |               |                  |                |
| CRMI5       | <i>Cryptantha minima</i>                          | <i>Cryptantha minima</i>                              |                      |                     |                                  |               |                  |                |
| CRAC3       | <i>Cryptogramma acrostichoides</i>                | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> |                      |                     |                                  |               |                  |                |
| CUFO        | <i>Cucurbita foetidissima</i>                     | <i>Cucurbita foetidissima</i>                         |                      |                     |                                  |               |                  |                |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i>    | <i>Cuscuta campestris</i>                             |                      |                     |                                  |               |                  |                |
| CUUM        | <i>Cuscuta umbellata</i>                          | <i>Cuscuta umbellata</i>                              |                      |                     |                                  |               |                  |                |
| CYBU        | <i>Cymopterus bulbosus</i>                        | <i>Cymopterus bulbosus</i>                            |                      |                     |                                  |               |                  |                |

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| CYDA        | <i>Cynodon dactylon</i>                       | <i>Cynodon dactylon</i>                               |                      |                         |                                       |               |                  |                |
| CYEC        | <i>Cynosurus echinatus</i>                    | <i>Cynosurus echinatus</i>                            |                      |                         |                                       |               |                  |                |
| CYSQ        | <i>Cyperus squarrosus</i>                     | <i>Cyperus aristatus</i>                              |                      |                         |                                       |               |                  |                |
| MISE3       | <i>Mitreola sessilifolia</i>                  | <i>Cyperus esculentus</i>                             |                      |                         |                                       |               |                  |                |
| CYFE2       | <i>Cyperus fendlerianus</i>                   | <i>Cyperus fendlerianus</i>                           |                      |                         |                                       |               |                  |                |
| CYBI6       | <i>Cyperus bipartitus</i>                     | <i>Cyperus rivularis</i>                              |                      |                         |                                       |               |                  |                |
| CYPU10      | <i>Cypripedium pubescens</i>                  | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    |                      |                         |                                       |               |                  |                |
| CYFR2       | <i>Cystopteris fragilis</i>                   | <i>Cystopteris fragilis</i>                           |                      |                         |                                       |               |                  |                |
| DAGL        | <i>Dactylis glomerata</i>                     | <i>Dactylis glomerata</i>                             |                      |                         |                                       |               |                  |                |
| DABR        | <i>Dalea brachystachya</i>                    | <i>Dalea brachystachys</i>                            |                      |                         |                                       |               |                  |                |
| DAFO        | <i>Dalea formosa</i>                          | <i>Dalea formosa</i>                                  |                      |                         |                                       |               |                  |                |
| DALE3       | <i>Dalea leporina</i>                         | <i>Dalea leporina</i>                                 |                      |                         |                                       |               |                  |                |
| DANA        | <i>Dalea nana</i>                             | <i>Dalea nana</i>                                     |                      |                         |                                       |               |                  |                |
| DAPO3       | <i>Dalea polygonoides</i>                     | <i>Dalea polygonoides</i>                             |                      |                         |                                       |               |                  |                |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>    | <i>Dalea terminalis</i>                               |                      |                         |                                       |               |                  |                |
| DAIN        | <i>Danthonia intermedia</i>                   | <i>Danthonia intermedia</i>                           |                      |                         |                                       |               |                  |                |
| DAPA2       | <i>Danthonia parryi</i>                       | <i>Danthonia parryi</i>                               |                      |                         |                                       |               |                  |                |
| DASP2       | <i>Danthonia spicata</i>                      | <i>Danthonia spicata</i>                              | Y                    | Scheiner & Teeri (1986) | Persists 70 yrs as post-fire dominant |               |                  |                |
| DAWR2       | <i>Datura wrightii</i>                        | <i>Datura meteloides</i>                              |                      |                         |                                       |               |                  |                |
| DEOC        | <i>Delphinium X occidentale</i>               | <i>Delphinium occidentale</i>                         |                      |                         |                                       |               |                  |                |
| DEWO        | <i>Delphinium wootonii</i>                    | <i>Delphinium virescens</i> subsp. <i>wootonii</i>    |                      |                         |                                       |               |                  |                |
| DECE        | <i>Deschampsia cespitosa</i>                  | <i>Deschampsia caespitosa</i>                         |                      |                         |                                       |               |                  |                |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>  | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>        |                      |                         |                                       |               |                  |                |
| DEPI        | <i>Descurainia pinnata</i>                    | <i>Descurainia pinnata</i>                            |                      |                         |                                       |               |                  |                |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>  | <i>Descurainia richardsonii</i>                       |                      |                         |                                       |               |                  |                |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>  | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>  |                      |                         |                                       |               |                  |                |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i> | <i>Descurainia richardsonii</i> subsp. <i>procera</i> |                      |                         |                                       |               |                  |                |
| DESO2       | <i>Descurainia sophia</i>                     | <i>Descurainia sophia</i>                             |                      |                         |                                       |               |                  |                |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i> | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i> |                      |                         |                                       |               |                  |                |
| DISP        | <i>Distichlis spicata</i>                     | <i>Distichlis spicata</i>                             |                      |                         |                                       |               |                  |                |

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|----------------------|----------------------|--------------------------------|---------------|------------------|----------------|
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis stricta</i>                                       |                      |                      |                                |               |                  |                |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                                  | <i>Dithyrea wislizenii</i>                                      |                      |                      |                                |               |                  |                |
| DOAL        | <i>Dodecatheon alpinum</i>                                      | <i>Dodecatheon alpinum</i>                                      |                      |                      |                                |               |                  |                |
| DOPU        | <i>Dodecatheon pulchellum</i>                                   | <i>Dodecatheon pulchellum</i>                                   |                      |                      |                                |               |                  |                |
| DRAU        | <i>Draba aurea</i>                                              | <i>Draba aurea</i> var. <i>aurea</i>                            |                      |                      |                                |               |                  |                |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>                  | <i>Draba helleriana</i> var. <i>helleriana</i>                  |                      |                      |                                |               |                  |                |
| DRRE        | <i>Draba rectifruta</i>                                         | <i>Draba rectifruta</i>                                         |                      |                      |                                |               |                  |                |
| DRRE2       | <i>Draba reptans</i>                                            | <i>Draba reptans</i>                                            |                      |                      |                                |               |                  |                |
| DRSP        | <i>Draba spectabilis</i>                                        | <i>Draba spectabilis</i>                                        |                      |                      |                                |               |                  |                |
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     |                      |                      |                                |               |                  |                |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         |                      |                      |                                |               |                  |                |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        |                      |                      |                                |               |                  |                |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    |                      |                      |                                |               |                  |                |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> |                      |                      |                                |               |                  |                |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   |                      |                      |                                |               |                  |                |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       |                      |                      |                                |               |                  |                |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    |                      |                      |                                |               |                  |                |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   |                      |                      |                                |               |                  |                |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  |                      |                      |                                |               |                  |                |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        |                      |                      |                                |               |                  |                |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           |                      |                      |                                |               |                  |                |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        |                      |                      |                                |               |                  |                |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        |                      |                      |                                |               |                  |                |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                      | <i>Ephedra viridis</i> var. <i>viridis</i>                      |                      |                      |                                |               |                  |                |
| EPAN2       | <i>Epilobium angustifolium</i>                                  | <i>Epilobium angustifolium</i>                                  | Y                    | Klinka et al. (1989) | Characteristic of burned sites |               |                  |                |
| EPCI        | <i>Epilobium ciliatum</i>                                       | <i>Epilobium ciliatum</i>                                       |                      |                      |                                |               |                  |                |
| EPOR2       | <i>Epilobium oregonense</i>                                     | <i>Epilobium oregonense</i>                                     |                      |                      |                                |               |                  |                |
| EPBR3       | <i>Epilobium brachycarpum</i>                                   | <i>Epilobium paniculatum</i>                                    |                      |                      |                                |               |                  |                |
| EPGI        | <i>Epipactis gigantea</i>                                       | <i>Epipactis gigantea</i>                                       |                      |                      |                                |               |                  |                |
| EQAR        | <i>Equisetum arvense</i>                                        | <i>Equisetum arvense</i>                                        |                      |                      |                                |               |                  |                |

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| EQHY        | <i>Equisetum hyemale</i>                                | <i>Equisetum hiemale</i>                                |                      |                |               |               |                  |                |
| EQLA        | <i>Equisetum laevigatum</i>                             | <i>Equisetum laevigatum</i>                             |                      |                |               |               |                  |                |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>      | <i>Eragrostis arida</i>                                 |                      |                |               |               |                  |                |
| ERBA2       | <i>Eragrostis barrelieri</i>                            | <i>Eragrostis barrelieri</i>                            |                      |                |               |               |                  |                |
| ERCI        | <i>Eragrostis cilianensis</i>                           | <i>Eragrostis cilianensis</i>                           |                      |                |               |               |                  |                |
| ERCU2       | <i>Eragrostis curvula</i>                               | <i>Eragrostis curvula</i>                               |                      |                |               |               |                  |                |
| ERHY        | <i>Eragrostis hypnoides</i>                             | <i>Eragrostis hypnoides</i>                             |                      |                |               |               |                  |                |
| ERPE        | <i>Eragrostis pectinacea</i>                            | <i>Eragrostis pectinacea</i>                            |                      |                |               |               |                  |                |
| ERTR3       | <i>Eragrostis trichodes</i>                             | <i>Eragrostis trichodes</i>                             |                      |                |               |               |                  |                |
| ERCA4       | <i>Erigeron canus</i>                                   | <i>Erigeron canus</i>                                   |                      |                |               |               |                  |                |
| ERDI4       | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               |                      |                |               |               |                  |                |
| EREL9       | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 |                      |                |               |               |                  |                |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             |                      |                |               |               |                  |                |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formisissimus</i> var. <i>formisissimus</i> |                      |                |               |               |                  |                |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus viscidus</i>                  |                      |                |               |               |                  |                |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              |                      |                |               |               |                  |                |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  |                      |                |               |               |                  |                |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          |                      |                |               |               |                  |                |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            |                      |                |               |               |                  |                |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinnus</i>         | <i>Erigeron pumilus</i> subsp. <i>concinnoides</i>      |                      |                |               |               |                  |                |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              |                      |                |               |               |                  |                |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 |                      |                |               |               |                  |                |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        |                      |                |               |               |                  |                |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            |                      |                |               |               |                  |                |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                |                      |                |               |               |                  |                |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               |                      |                |               |               |                  |                |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                |                      |                |               |               |                  |                |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               |                      |                |               |               |                  |                |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             |                      |                |               |               |                  |                |

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| ERAL4       | <i>Eriogonum alatum</i>                                   | <i>Eriogonum alatum</i>                           |                      |                |               |               |                  |                |
| ERAN4       | <i>Eriogonum annuum</i>                                   | <i>Eriogonum annuum</i>                           |                      |                |               |               |                  |                |
| ERCE2       | <i>Eriogonum cernuum</i>                                  | <i>Eriogonum cernuum</i>                          |                      |                |               |               |                  |                |
| EREF        | <i>Eriogonum effusum</i>                                  | <i>Eriogonum effusum</i>                          |                      |                |               |               |                  |                |
| ERJA        | <i>Eriogonum jamesii</i>                                  | <i>Eriogonum jamesii</i>                          |                      |                |               |               |                  |                |
| ERLE9       | <i>Eriogonum leptocladon</i>                              | <i>Eriogonum leptocladon</i>                      |                      |                |               |               |                  |                |
| ERPO4       | <i>Eriogonum polycladon</i>                               | <i>Eriogonum polycladon</i>                       |                      |                |               |               |                  |                |
| ERRA3       | <i>Eriogonum racemosum</i>                                | <i>Eriogonum racemosum</i>                        |                      |                |               |               |                  |                |
| ERIC6       | <i>Erodium cicutarium</i>                                 | <i>Erodium cicutarium</i>                         |                      |                |               |               |                  |                |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>           | <i>Erysimum asperum</i>                           |                      |                |               |               |                  |                |
| ERCA14      | <i>Erysimum capitatum</i>                                 | <i>Erysimum capitatum</i>                         |                      |                |               |               |                  |                |
| ERIN7       | <i>Erysimum inconspicuum</i>                              | <i>Erysimum inconspicuum</i>                      |                      |                |               |               |                  |                |
| ERHE7       | <i>Erythronium hendersonii</i>                            | <i>Eupatorium herbaceum</i>                       |                      |                |               |               |                  |                |
| CHAL11      | <i>Chamaesyce albomarginata</i>                           | <i>Euphorbia albomarginata</i>                    |                      |                |               |               |                  |                |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i>                          |                      |                |               |               |                  |                |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>  |                      |                |               |               |                  |                |
| EUEX4       | <i>Euphorbia exstipulata</i>                              | <i>Euphorbia exstipulata</i>                      |                      |                |               |               |                  |                |
| CHFE3       | <i>Chamaesyce fendleri</i>                                | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    |                      |                |               |               |                  |                |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>               | <i>Euphorbia geyeri</i>                           |                      |                |               |               |                  |                |
| EULU        | <i>Euphorbia lurida</i>                                   | <i>Euphorbia lurida</i>                           |                      |                |               |               |                  |                |
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> |                      |                |               |               |                  |                |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      |                      |                |               |               |                  |                |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         |                      |                |               |               |                  |                |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          |                      |                |               |               |                  |                |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    |                      |                |               |               |                  |                |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             |                      |                |               |               |                  |                |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                          |                      |                |               |               |                  |                |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                          |                      |                |               |               |                  |                |
| FERUR       | <i>Fendleri rupicola</i> var. <i>rupicola</i>             | <i>Fendleri rupicola</i> var. <i>rupicola</i>     |                      |                |               |               |                  |                |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                          |                      |                |               |               |                  |                |

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| LOPR7       | <i>Lolium pratense</i>                            | <i>Festuca elatior</i>                          |                      |                |               |               |                  |                |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>     | <i>Festuca octoflora</i>                        |                      |                |               |               |                  |                |
| FEOV        | <i>Festuca ovina</i> L.                           | <i>Festuca ovina</i>                            |                      |                |               |               |                  |                |
| FESO        | <i>Festuca sororia</i>                            | <i>Festuca sororia</i>                          |                      |                |               |               |                  |                |
| FETH        | <i>Festuca thurberi</i>                           | <i>Festuca thurberi</i>                         |                      |                |               |               |                  |                |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i> | <i>Forestiera neomexicana</i>                   |                      |                |               |               |                  |                |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>       | <i>Fragaria americana</i>                       |                      |                |               |               |                  |                |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i> | <i>Fragaria ovalis</i>                          |                      |                |               |               |                  |                |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                | <i>Franseria acanthicarpa</i>                   |                      |                |               |               |                  |                |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                 | <i>Franseria confertiflora</i>                  |                      |                |               |               |                  |                |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.               | <i>Gaillardia pinnatifida</i>                   |                      |                |               |               |                  |                |
| GAAP2       | <i>Galium aparine</i> L.                          | <i>Galium aparine</i>                           |                      |                |               |               |                  |                |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>asperrimum</i>    | <i>Galium asperrimum</i>                        |                      |                |               |               |                  |                |
| GABO2       | <i>Galium boreale</i>                             | <i>Galium boreale</i>                           |                      |                |               |               |                  |                |
| GAFE        | <i>Galium fendleri</i>                            | <i>Galium fendleri</i>                          |                      |                |               |               |                  |                |
| GAMI        | <i>Galium microphyllum</i>                        | <i>Galium microphyllum</i>                      |                      |                |               |               |                  |                |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>    | <i>Galium tinctorum</i> var. <i>subbiflorum</i> |                      |                |               |               |                  |                |
| GACO5       | <i>Gaura coccinea</i>                             | <i>Gaura coccinea</i>                           |                      |                |               |               |                  |                |
| GAPA6       | <i>Gaura parviflora</i>                           | <i>Gaura parviflora</i>                         |                      |                |               |               |                  |                |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana affinis</i>                         |                      |                |               |               |                  |                |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana bigelovii</i>                       |                      |                |               |               |                  |                |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana plebeia</i>                         |                      |                |               |               |                  |                |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana strictiflora</i>                    |                      |                |               |               |                  |                |
| GECA3       | <i>Geranium caespitosum</i>                       | <i>Geranium caespitosum</i>                     |                      |                |               |               |                  |                |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i> | <i>Geranium fremontii</i>                       |                      |                |               |               |                  |                |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>    | <i>Geranium fremontii</i> var. <i>parryi</i>    |                      |                |               |               |                  |                |
| GERI        | <i>Geranium richardsonii</i>                      | <i>Geranium richardsonii</i>                    |                      |                |               |               |                  |                |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>   | <i>Geum macrophyllum</i> var. <i>perincisum</i> |                      |                |               |               |                  |                |
| GERI2       | <i>Geum rivale</i>                                | <i>Geum rivale</i>                              |                      |                |               |               |                  |                |
| GEAL3       | <i>Geum aleppicum</i>                             | <i>Geum strictum</i> var. <i>strictum</i>       |                      |                |               |               |                  |                |

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| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>                    | <i>Geum triflorum</i> var. <i>ciliatum</i>       |                      |                |               |               |                  |                |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>                | <i>Gilia flavocincta</i> subsp. <i>australis</i> |                      |                |               |               |                  |                |
| GILE3       | <i>Gilia leptomeria</i>                                       | <i>Gilia leptomeria</i>                          |                      |                |               |               |                  |                |
| GIPI        | <i>Gilia pinnatifida</i>                                      | <i>Gilia pinnatifida</i>                         |                      |                |               |               |                  |                |
| GLBO        | <i>Glyceria borealis</i>                                      | <i>Glyceria borealis</i>                         |                      |                |               |               |                  |                |
| GLGR        | <i>Glyceria grandis</i>                                       | <i>Glyceria grandis</i>                          |                      |                |               |               |                  |                |
| GLST        | <i>Glyceria striata</i>                                       | <i>Glyceria striata</i>                          |                      |                |               |               |                  |                |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                                   | <i>Glycyrrhiza lepidota</i>                      |                      |                |               |               |                  |                |
| PSST7       | <i>Pseudognaphalium stramineum</i>                            | <i>Gnaphalium chilense</i>                       |                      |                |               |               |                  |                |
| PSST7       | <i>Pseudognaphalium stramineum</i>                            | <i>Gnaphalium chilense</i>                       |                      |                |               |               |                  |                |
| GNEX        | <i>Gnaphalium exilifolium</i>                                 | <i>Gnaphalium grayi</i>                          |                      |                |               |               |                  |                |
| PSMA11      | <i>Pseudognaphalium macounii</i>                              | <i>Gnaphalium macounii</i>                       |                      |                |               |               |                  |                |
| GNPA        | <i>Gnaphalium palustre</i>                                    | <i>Gnaphalium palustre</i>                       |                      |                |               |               |                  |                |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i>       | <i>Gnaphalium wrightii</i>                       |                      |                |               |               |                  |                |
| GOOB2       | <i>Goodyera oblongifolia</i>                                  | <i>Goodyera oblongifolia</i>                     |                      |                |               |               |                  |                |
| GORE2       | <i>Goodyera repens</i>                                        | <i>Goodyera repens</i>                           |                      |                |               |               |                  |                |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>                  | <i>Grindelia aphanactis</i>                      |                      |                |               |               |                  |                |
| GRFA        | <i>Grindelia fastigiata</i>                                   | <i>Grindelia fastigiata</i>                      |                      |                |               |               |                  |                |
| GRSQ        | <i>Grindelia squarrosa</i>                                    | <i>Grindelia squarrosa</i>                       |                      |                |               |               |                  |                |
| GUMI        | <i>Gutierrezia microcephala</i>                               | <i>Gutierrezia microcephala</i>                  |                      |                |               |               |                  |                |
| GUSA2       | <i>Gutierrezia sarothrae</i>                                  | <i>Gutierrezia sarothrae</i>                     |                      |                |               |               |                  |                |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>          | <i>Habenaria hyperborea</i>                      |                      |                |               |               |                  |                |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>        | <i>Habenaria sparsiflora</i>                     |                      |                |               |               |                  |                |
| HAFL2       | <i>Hackelia floribunda</i>                                    | <i>Hackelia floribunda</i>                       |                      |                |               |               |                  |                |
| HABE3       | <i>Hackelia besseyi</i>                                       | <i>Hackelia grisea</i>                           |                      |                |               |               |                  |                |
| HAPI2       | <i>Hackelia pinetorum</i>                                     | <i>Hackelia pinetorum</i>                        |                      |                |               |               |                  |                |
| PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i>                    | <i>Haplopappus croceus</i>                       |                      |                |               |               |                  |                |
| MAGR10      | <i>Machaeranthera gracilis</i>                                | <i>Haplopappus gracilis</i>                      |                      |                |               |               |                  |                |
| MAGRG       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i> | <i>Haplopappus nuttallii</i>                     |                      |                |               |               |                  |                |
| SOPA4       | <i>Solidago parryi</i>                                        | <i>Haplopappus parryi</i>                        |                      |                |               |               |                  |                |



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| MAPIP4      | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i>     |                      |                |               |               |                  |                |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                                  |                      |                |               |               |                  |                |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                        |                      |                |               |               |                  |                |
| HEOB        | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                                |                      |                |               |               |                  |                |
| HEPU12      | <i>Hedeoma pulcherrima</i>                                                        | <i>Hedeoma pulcherrima</i>                                 |                      |                |               |               |                  |                |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>             |                      |                |               |               |                  |                |
| HYHO        | <i>Hymenoxys hoopesii</i>                                                         | <i>Helenium hoopesii</i>                                   |                      |                |               |               |                  |                |
| HEQU2       | <i>Helianthella quinquenervis</i>                                                 | <i>Helianthella quinquenervis</i>                          |                      |                |               |               |                  |                |
| HEAN3       | <i>Helianthus annuus</i>                                                          | <i>Helianthus annuus</i>                                   |                      |                |               |               |                  |                |
| HEAR8       | <i>Helianthus arizonensis</i>                                                     | <i>Helianthus arizonensis</i>                              |                      |                |               |               |                  |                |
| HEPE        | <i>Helianthus petiolaris</i>                                                      | <i>Helianthus petiolaris</i>                               |                      |                |               |               |                  |                |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i>                          | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i>     |                      |                |               |               |                  |                |
| HEMA80      | <i>Heracleum maximum</i>                                                          | <i>Heracleum lanatum</i>                                   |                      |                |               |               |                  |                |
| HEPA11      | <i>Heuchera parvifolia</i>                                                        | <i>Heuchera parvifolia</i>                                 |                      |                |               |               |                  |                |
| HICA4       | <i>Hieracium carneum</i>                                                          | <i>Hieracium carneum</i>                                   |                      |                |               |               |                  |                |
| HIFE        | <i>Hieracium fendleri</i>                                                         | <i>Hieracium fendleri</i>                                  |                      |                |               |               |                  |                |
| HIOD        | <i>Hierochloe odorata</i>                                                         | <i>Hierochloe odorata</i>                                  |                      |                |               |               |                  |                |
| PLJA        | <i>Pleuraphis jamesii</i>                                                         | <i>Hilaria jamesii</i>                                     |                      |                |               |               |                  |                |
| HODU        | <i>Holodiscus dumosus</i>                                                         | <i>Holodiscus dumosus</i>                                  |                      |                |               |               |                  |                |
| HOBR2       | <i>Hordeum brachyantherum</i>                                                     | <i>Hordeum brachyantherum</i>                              |                      |                |               |               |                  |                |
| HOJU        | <i>Hordeum jubatum</i>                                                            | <i>Hordeum jubatum</i>                                     |                      |                |               |               |                  |                |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>                                     | <i>Humulus americanus</i>                                  |                      |                |               |               |                  |                |
| HYFE        | <i>Hydrophyllum fendleri</i>                                                      | <i>Hydrophyllum fendleri</i>                               |                      |                |               |               |                  |                |
| HYFI        | <i>Hymenopappus filifolius</i>                                                    | <i>Hymenopappus filifolius</i>                             |                      |                |               |               |                  |                |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i>                             | <i>Hymenopappus flavescens</i> var. <i>cano-tomentosus</i> |                      |                |               |               |                  |                |
| HYNE        | <i>Hymenopappus newberryi</i>                                                     | <i>Hymenopappus newberryi</i>                              |                      |                |               |               |                  |                |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                                                   | <i>Hymenopappus tenuifolius</i>                            |                      |                |               |               |                  |                |
| TECA2       | <i>Tetradymia canescens</i>                                                       | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>               |                      |                |               |               |                  |                |
| TEACA       | <i>Tetranneuris acaulis</i> var. <i>arizonica</i>                                 | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>             |                      |                |               |               |                  |                |
| TEACN       | <i>Tetranneuris acaulis</i> var. <i>nana</i>                                      | <i>Hymenoxys argentea</i>                                  |                      |                |               |               |                  |                |

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| TEBR        | <i>Tetranneuris brandegei</i>                        | <i>Hymenoxys brandegei</i>                           |                      |                      |                              | Y             | Ganskopp (1986)  | Does fairly well under flooded conditions |
| TEIV        | <i>Tetranneuris ivesiana</i>                         | <i>Hymenoxys ivesiana</i>                            |                      |                      |                              |               |                  |                                           |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i> | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i> |                      |                      |                              |               |                  |                                           |
| HYNI        | <i>Hyoscyamus niger</i>                              | <i>Hyoscyamus niger</i>                              |                      |                      |                              |               |                  |                                           |
| HYFO4       | <i>Hypericum formosum</i>                            | <i>Hypericum formosum</i>                            |                      |                      |                              |               |                  |                                           |
| IPCO3       | <i>Ipomoea coccinea</i>                              | <i>Ipomoea coccinea</i>                              |                      |                      |                              |               |                  |                                           |
| IPHE        | <i>Ipomoea hederacea</i>                             | <i>Ipomoea hederacea</i>                             |                      |                      |                              |               |                  |                                           |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>     | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>   |                      |                      |                              |               |                  |                                           |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>    | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>      |                      |                      |                              |               |                  |                                           |
| IPLA2       | <i>Ipomopsis laxiflora</i>                           | <i>Ipomopsis laxiflora</i>                           |                      |                      |                              |               |                  |                                           |
| IPLO2       | <i>Ipomopsis longiflora</i>                          | <i>Ipomopsis longiflora</i>                          |                      |                      |                              |               |                  |                                           |
| IPMU3       | <i>Ipomopsis multiflora</i>                          | <i>Ipomopsis multiflora</i>                          |                      |                      |                              |               |                  |                                           |
| IPPU4       | <i>Ipomopsis pumila</i>                              | <i>Ipomopsis pumila</i>                              |                      |                      |                              |               |                  |                                           |
| IRMI        | <i>Iris missouriensis</i>                            | <i>Iris missouriensis</i>                            |                      |                      |                              |               |                  |                                           |
| IVAX        | <i>Iva axillaris</i>                                 | <i>Iva axillaris</i>                                 |                      |                      |                              |               |                  |                                           |
| IVXA        | <i>Iva xanthifolia</i>                               | <i>Iva xanthifolia</i>                               |                      |                      |                              |               |                  |                                           |
| JAAM        | <i>Jamesia americana</i>                             | <i>Jamesia americana</i>                             |                      |                      |                              |               |                  |                                           |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>          | <i>Juncus balticus</i> var. <i>montanus</i>          |                      |                      |                              |               |                  |                                           |
| JUBU        | <i>Juncus bufonius</i>                               | <i>Juncus bufonius</i>                               |                      |                      |                              |               |                  |                                           |
| JUCO2       | <i>Juncus confusus</i>                               | <i>Juncus confusus</i>                               |                      |                      |                              |               |                  |                                           |
| JUDR        | <i>Juncus drummondii</i>                             | <i>Juncus drummondii</i>                             |                      |                      |                              |               |                  |                                           |
| JUIN2       | <i>Juncus interior</i>                               | <i>Juncus interior</i>                               |                      |                      |                              |               |                  |                                           |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>    | <i>Juncus longistylis</i> var. <i>longistylis</i>    |                      |                      |                              |               |                  |                                           |
| JUMA4       | <i>Juncus marginatus</i>                             | <i>Juncus marginatus</i>                             |                      |                      |                              |               |                  |                                           |
| JUME4       | <i>Juncus mexicanus</i>                              | <i>Juncus mexicanus</i>                              |                      |                      |                              |               |                  |                                           |
| JUTE        | <i>Juncus tenuis</i>                                 | <i>Juncus tenuis</i>                                 |                      |                      |                              |               |                  |                                           |
| JUTO        | <i>Juncus torreyi</i>                                | <i>Juncus torreyi</i>                                | Y                    | Collins & Uno (1983) | Does better on unburned land |               |                  |                                           |
| JUXI        | <i>Juncus xiphioides</i>                             | <i>Juncus xiphioides</i>                             |                      |                      |                              |               |                  |                                           |

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| JUCO6       | <i>Juniperus communis</i>                               | <i>Juniperus communis</i>                    |                      |                |               |               |                  |                |
| JUDE2       | <i>Juniperus deppeana</i>                               | <i>Juniperus deppeana</i>                    |                      |                |               |               |                  |                |
| JUMO        | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                  |                      |                |               |               |                  |                |
| JUSC2       | <i>Juniperus scopulorum</i>                             | <i>Juniperus scopulorum</i>                  |                      |                |               |               |                  |                |
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>             |                      |                |               |               |                  |                |
| KOSC        | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                       |                      |                |               |               |                  |                |
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                     |                      |                |               |               |                  |                |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                        |                      |                |               |               |                  |                |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                    |                      |                |               |               |                  |                |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                    |                      |                |               |               |                  |                |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                  |                      |                |               |               |                  |                |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                   |                      |                |               |               |                  |                |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                     |                      |                |               |               |                  |                |
| LASE        | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                      |                      |                |               |               |                  |                |
| LABI        | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                       |                      |                |               |               |                  |                |
| LASQ        | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                      |                      |                |               |               |                  |                |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                     |                      |                |               |               |                  |                |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                        |                      |                |               |               |                  |                |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus arizonicus</i>                   |                      |                |               |               |                  |                |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus leucanthus</i>                   |                      |                |               |               |                  |                |
| LEOR        | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                     |                      |                |               |               |                  |                |
| LEMI3       | <i>Lemna minor</i>                                      | <i>Lemna minor</i>                           |                      |                |               |               |                  |                |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>           | <i>Lepidium medium</i> var. <i>pubescens</i> |                      |                |               |               |                  |                |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>        | <i>Lepidium medium</i> var. <i>medium</i>    |                      |                |               |               |                  |                |
| LEFE        | <i>Lesquerella fendleri</i>                             | <i>Lesquerella fendleri</i>                  |                      |                |               |               |                  |                |
| LEIN3       | <i>Lesquerella intermedia</i>                           | <i>Lesquerella intermedia</i>                |                      |                |               |               |                  |                |
| LERE3       | <i>Lesquerella rectipes</i>                             | <i>Lesquerella rectipes</i>                  |                      |                |               |               |                  |                |
| CHER2       | <i>Chaetopappa ericoides</i>                            | <i>Leucelene ericoides</i>                   |                      |                |               |               |                  |                |
| LIPU        | <i>Liatris punctata</i>                                 | <i>Liatris punctata</i>                      |                      |                |               |               |                  |                |
| LIPO        | <i>Ligusticum porteri</i>                               | <i>Ligusticum porteri</i>                    |                      |                |               |               |                  |                |

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| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i> | <i>Lilium umbellatum</i>                          |                      |                |               |               |                  |                |
| LIAQ        | <i>Limosella aquatica</i>                        | <i>Limosella aquatica</i>                         |                      |                |               |               |                  |                |
| LIVU2       | <i>Linaria vulgaris</i>                          | <i>Linaria vulgaris</i>                           |                      |                |               |               |                  |                |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>       | <i>Linum aristatum</i> var. <i>australe</i>       |                      |                |               |               |                  |                |
| LILE3       | <i>Linum lewisii</i>                             | <i>Linum lewisii</i>                              |                      |                |               |               |                  |                |
| LINE        | <i>Linum neomexicanum</i>                        | <i>Linum neomexicana</i>                          |                      |                |               |               |                  |                |
| LIPU4       | <i>Linum puberulum</i>                           | <i>Linum puberulum</i>                            |                      |                |               |               |                  |                |
| LIRI        | <i>Linum rigidum</i>                             | <i>Linum rigidum</i> "complex"                    |                      |                |               |               |                  |                |
| LICO7       | <i>Lithospermum cobrense</i>                     | <i>Lithospermum cobrense</i>                      |                      |                |               |               |                  |                |
| LIIN2       | <i>Lithospermum incisum</i>                      | <i>Lithospermum incisum</i>                       |                      |                |               |               |                  |                |
| LIMU3       | <i>Lithospermum multiflorum</i>                  | <i>Lithospermum multiflorum</i>                   |                      |                |               |               |                  |                |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>   | <i>Lobelia cardinalis</i> subsp. <i>graminae</i>  |                      |                |               |               |                  |                |
| LOPE        | <i>Lolium perenne</i>                            | <i>Lolium perenne</i>                             |                      |                |               |               |                  |                |
| LOIN5       | <i>Lonicera involucrata</i>                      | <i>Lonicera involucrata</i>                       |                      |                |               |               |                  |                |
| LOWR        | <i>Lotus wrightii</i>                            | <i>Lotus wrightii</i>                             |                      |                |               |               |                  |                |
| LUAL5       | <i>Lupinus X alpestris</i>                       | <i>Lupinus alpestris</i>                          |                      |                |               |               |                  |                |
| LUAM        | <i>Lupinus ammophilus</i>                        | <i>Lupinus ammophilus</i>                         |                      |                |               |               |                  |                |
| LUAR3       | <i>Lupinus argenteus</i>                         | <i>Lupinus argenteus</i>                          |                      |                |               |               |                  |                |
| LUBR2       | <i>Lupinus brevicaulis</i>                       | <i>Lupinus brevicaulis</i>                        |                      |                |               |               |                  |                |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>  | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> |                      |                |               |               |                  |                |
| LUKI        | <i>Lupinus kingii</i>                            | <i>Lupinus kingii</i>                             |                      |                |               |               |                  |                |
| LUPU        | <i>Lupinus pusillus</i>                          | <i>Lupinus pusillus</i>                           |                      |                |               |               |                  |                |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i> | <i>Lupinus rubricaulis</i>                        |                      |                |               |               |                  |                |
| LUPA4       | <i>Luzula parviflora</i>                         | <i>Luzula parviflora</i>                          |                      |                |               |               |                  |                |
| LYPA        | <i>Lycium pallidum</i>                           | <i>Lycium pallidum</i>                            |                      |                |               |               |                  |                |
| LYAM        | <i>Lycopus americanus</i>                        | <i>Lycopus americanus</i>                         |                      |                |               |               |                  |                |
| LYPH        | <i>Lycurus phleoides</i>                         | <i>Lycurus phleoides</i>                          |                      |                |               |               |                  |                |
| PSAS2       | <i>Psilactis asteroides</i>                      | <i>Machaeranthera amplifolia</i>                  |                      |                |               |               |                  |                |
| MABI        | <i>Machaeranthera bigelovii</i>                  | <i>Machaeranthera bigelovii</i>                   |                      |                |               |               |                  |                |
| MACA2       | <i>Machaeranthera canescens</i>                  | <i>Machaeranthera canescens</i>                   |                      |                |               |               |                  |                |

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| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                     |                      |                |               |               |                  |                |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>                |                      |                |               |               |                  |                |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                    |                      |                |               |               |                  |                |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                        |                      |                |               |               |                  |                |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                              |                      |                |               |               |                  |                |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                             |                      |                |               |               |                  |                |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                            |                      |                |               |               |                  |                |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                        |                      |                |               |               |                  |                |
| MAVU        | <i>Marrubium vulgare</i>                                                 | <i>Marrubium vulgare</i>                           |                      |                |               |               |                  |                |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                       | <i>Maurandya antirrhiniflora</i>                   |                      |                |               |               |                  |                |
| MELU        | <i>Medicago lupulina</i>                                                 | <i>Medicago lupulina</i>                           |                      |                |               |               |                  |                |
| MESA        | <i>Medicago sativa</i>                                                   | <i>Medicago sativa</i>                             |                      |                |               |               |                  |                |
| MELE2       | <i>Melampodium leucanthum</i>                                            | <i>Melampodium leucanthum</i>                      |                      |                |               |               |                  |                |
| MEPO        | <i>Melica porteri</i>                                                    | <i>Melica porteri</i>                              |                      |                |               |               |                  |                |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus albus</i>                             |                      |                |               |               |                  |                |
| MEIN2       | <i>Melilotus indicus</i>                                                 | <i>Melilotus indicus</i>                           |                      |                |               |               |                  |                |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus officinalis</i>                       |                      |                |               |               |                  |                |
| MESC        | <i>Menodora scabra</i>                                                   | <i>Menodora scabra</i>                             |                      |                |               |               |                  |                |
| MEAR4       | <i>Mentha arvensis</i>                                                   | <i>Mentha arvensis</i>                             |                      |                |               |               |                  |                |
| MEAL6       | <i>Mentzelia albicaulis</i>                                              | <i>Mentzelia albicaulis</i>                        |                      |                |               |               |                  |                |
| MELA        | <i>Mentzelia laciniata</i>                                               | <i>Mentzelia laciniata</i>                         |                      |                |               |               |                  |                |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>                                | <i>Mentzelia nuda</i> var. <i>stricta</i>          |                      |                |               |               |                  |                |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>                               | <i>Mentzelia pumila</i> var. <i>integra</i>        |                      |                |               |               |                  |                |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>                          | <i>Mentzelia pumila</i> var. <i>multiflora</i>     |                      |                |               |               |                  |                |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                       | <i>Mentzelia pumila</i> var. <i>pumila</i>         |                      |                |               |               |                  |                |
| MERU        | <i>Mentzelia rusbyi</i>                                                  | <i>Mentzelia rusbyi</i>                            |                      |                |               |               |                  |                |
| MEBR        | <i>Mertensia brevistyla</i>                                              | <i>Mertensia brevistyla</i>                        |                      |                |               |               |                  |                |
| MEFR2       | <i>Mertensia franciscana</i>                                             | <i>Mertensia franciscana</i>                       |                      |                |               |               |                  |                |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i>                          | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   |                      |                |               |               |                  |                |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                       | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> |                      |                |               |               |                  |                |
| URLI2       | <i>Uropappus linearifolius</i>                                           | <i>Microseris linearifolia</i>                     |                      |                |               |               |                  |                |

# FIRE AND FLOOD CON'T

| USDA Symbol | USDA NRCS PLANTS                                                       | Martin and Hutchins (1980)                     | Associated with Fire | Fire Reference | Fire Comments | Flooded Areas | Flood References | Flood Comments |
|-------------|------------------------------------------------------------------------|------------------------------------------------|----------------------|----------------|---------------|---------------|------------------|----------------|
|             |                                                                        | <i>Microseris minimus</i>                      |                      |                |               |               |                  |                |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                             | <i>Microsteris gracilis</i>                    |                      |                |               |               |                  |                |
| MIFL2       | <i>Mimulus floribundus</i>                                             | <i>Mimulus floribundus</i>                     |                      |                |               |               |                  |                |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                           | <i>Mimulus glabratus</i> var. <i>fremontii</i> |                      |                |               |               |                  |                |
| MIGU        | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                        |                      |                |               |               |                  |                |
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                      |                      |                |               |               |                  |                |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                    |                      |                |               |               |                  |                |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                  |                      |                |               |               |                  |                |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                    |                      |                |               |               |                  |                |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                    |                      |                |               |               |                  |                |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                       |                      |                |               |               |                  |                |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                    |                      |                |               |               |                  |                |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                    |                      |                |               |               |                  |                |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                |                      |                |               |               |                  |                |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                 |                      |                |               |               |                  |                |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                   |                      |                |               |               |                  |                |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                    |                      |                |               |               |                  |                |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                 |                      |                |               |               |                  |                |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                    |                      |                |               |               |                  |                |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                |                      |                |               |               |                  |                |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                   |                      |                |               |               |                  |                |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                     |                      |                |               |               |                  |                |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia torreyi</i>                    |                      |                |               |               |                  |                |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolfii</i>                     |                      |                |               |               |                  |                |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                   |                      |                |               |               |                  |                |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                        |                      |                |               |               |                  |                |
|             |                                                                        | <i>Myosurus minimus</i>                        |                      |                |               |               |                  |                |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                         |                      |                |               |               |                  |                |
| NAHI        | <i>Nama hispidum</i>                                                   | <i>Nama hispidum</i> var. <i>hispidum</i>      |                      |                |               |               |                  |                |
| NECA2       | <i>Nepeta cataria</i>                                                  | <i>Nepeta cataria</i>                          |                      |                |               |               |                  |                |
| NIAT        | <i>Nicotiana attenuata</i>                                             | <i>Nictotiana attenuata</i>                    |                      |                |               |               |                  |                |
| NOMI        | <i>Nolina microcarpa</i>                                               | <i>Nolina microcarpa</i>                       |                      |                |               |               |                  |                |
| NOTHO       | <i>Notholaena</i>                                                      | <i>Notholaena</i> spp.                         |                      |                |               |               |                  |                |

## FIRE AND FLOOD CON'T

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| NOST        | <i>Notholaena standleyi</i>                          | <i>Notholaena standleyi</i>                        |                      |                |               |               |                  |                |
| OEAL        | <i>Oenothera albicaulis</i>                          | <i>Oenothera albicaulis</i>                        |                      |                |               |               |                  |                |
| OECE2       | <i>Oenothera caespitosa</i>                          | <i>Oenothera caespitosa</i>                        |                      |                |               |               |                  |                |
| OECEM3      | <i>Oenothera caespitosa</i> ssp. <i>macroglottis</i> | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>   |                      |                |               |               |                  |                |
| OECEC2      | <i>Oenothera caespitosa</i> ssp. <i>caespitosa</i>   | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  |                      |                |               |               |                  |                |
| OECO2       | <i>Oenothera coronopifolia</i>                       | <i>Oenothera coronopifolia</i>                     |                      |                |               |               |                  |                |
| OEFL        | <i>Oenothera flava</i>                               | <i>Oenothera flava</i>                             |                      |                |               |               |                  |                |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>           | <i>Oenothera hookeri</i>                           |                      |                |               |               |                  |                |
| OELA        | <i>Oenothera laciniata</i>                           | <i>Oenothera laciniata</i> var. <i>laciniata</i>   |                      |                |               |               |                  |                |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>         | <i>Oenothera pallida</i> subsp. <i>pallida</i>     |                      |                |               |               |                  |                |
| OEPR        | <i>Oenothera primiveris</i>                          | <i>Oenothera primiveris</i>                        |                      |                |               |               |                  |                |
| OPCL        | <i>Opuntia clavata</i>                               | <i>Opuntia clavata</i>                             |                      |                |               |               |                  |                |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>         | <i>Opuntia erinacea</i> var. <i>erinacea</i>       |                      |                |               |               |                  |                |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>        | <i>Opuntia erinacea</i> var. <i>utahensis</i>      |                      |                |               |               |                  |                |
| OPIM        | <i>Opuntia imbricata</i>                             | <i>Opuntia imbricata</i>                           |                      |                |               |               |                  |                |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>     | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   |                      |                |               |               |                  |                |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>   | <i>Opuntia phaeacantha</i> var. <i>discata</i>     |                      |                |               |               |                  |                |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>   | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> |                      |                |               |               |                  |                |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>   | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> |                      |                |               |               |                  |                |
| ORFA        | <i>Orobancha fasciculata</i>                         | <i>Orobancha fasciculata</i> var. <i>lutea</i>     |                      |                |               |               |                  |                |
| ORLU        | <i>Orobancha ludoviciana</i>                         | <i>Orobancha ludoviciana</i>                       |                      |                |               |               |                  |                |
| ORLUM       | <i>Orobancha ludoviciana</i> ssp. <i>multiflora</i>  | <i>Orobancha multiflora</i>                        |                      |                |               |               |                  |                |
| ORLU2       | <i>Orthocarpus luteus</i>                            | <i>Orthocarpus luteus</i>                          |                      |                |               |               |                  |                |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                     | <i>Orthocarpus purpureo-albus</i>                  |                      |                |               |               |                  |                |
| ORAS        | <i>Oryzopsis asperifolia</i>                         | <i>Oryzopsis asperifolia</i>                       |                      |                |               |               |                  |                |
| ACHY        | <i>Achnatherum hymenoides</i>                        | <i>Oryzopsis hymenoides</i>                        |                      |                |               |               |                  |                |
| PIMI7       | <i>Piptatherum micranthum</i>                        | <i>Oryzopsis micrantha</i>                         |                      |                |               |               |                  |                |
| OSDE        | <i>Osmorhiza depauperata</i>                         | <i>Osmorhiza obtusa</i>                            |                      |                |               |               |                  |                |
| OXAL2       | <i>Oxalis alpina</i>                                 | <i>Oxalis metcalfei</i>                            |                      |                |               |               |                  |                |

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| OXVI        | <i>Oxalis violacea</i>                                      | <i>Oxalis violacea</i>                          |                      |                |               |               |                  |                |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                       |                      |                |               |               |                  |                |
| MILI3       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i>  |                      |                |               |               |                  |                |
| OXFE        | <i>Oxypolis fendleri</i>                                    | <i>Oxypolis fendleri</i>                        |                      |                |               |               |                  |                |
| OXL3        | <i>Oxytropis lambertii</i>                                  | <i>Oxytropis lambertii</i>                      |                      |                |               |               |                  |                |
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                    |                      |                |               |               |                  |                |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                         |                      |                |               |               |                  |                |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i>  |                      |                |               |               |                  |                |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                           |                      |                |               |               |                  |                |
| DIOLS       | <i>Dichanthelium oligosanthos</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                          |                      |                |               |               |                  |                |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                        |                      |                |               |               |                  |                |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                          |                      |                |               |               |                  |                |
| DIOLS       | <i>Dichanthelium oligosanthos</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                    |                      |                |               |               |                  |                |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                     |                      |                |               |               |                  |                |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                         |                      |                |               |               |                  |                |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                       |                      |                |               |               |                  |                |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                   |                      |                |               |               |                  |                |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                      |                      |                |               |               |                  |                |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                           |                      |                |               |               |                  |                |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                        |                      |                |               |               |                  |                |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                |                      |                |               |               |                  |                |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                     |                      |                |               |               |                  |                |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                         |                      |                |               |               |                  |                |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                        |                      |                |               |               |                  |                |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                   |                      |                |               |               |                  |                |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i> |                      |                |               |               |                  |                |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                        |                      |                |               |               |                  |                |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                       |                      |                |               |               |                  |                |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                        |                      |                |               |               |                  |                |



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| PELE2       | <i>Penstemon lentus</i>                                   | <i>Penstemon lentus</i>                                   |                      |                     |                                  |               |                  |                |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>    | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i>  |                      |                     |                                  |               |                  |                |
| PEOL        | <i>Penstemon oliganthus</i>                               | <i>Penstemon oliganthus</i>                               |                      |                     |                                  |               |                  |                |
| PERY        | <i>Penstemon rydbergii</i>                                | <i>Penstemon rydbergii</i>                                |                      |                     |                                  |               |                  |                |
| PESE11      | <i>Penstemon secundiflorus</i>                            | <i>Penstemon secundiflorus</i>                            |                      |                     |                                  |               |                  |                |
| PEV14       | <i>Penstemon virgatus</i>                                 | <i>Penstemon virgatus</i>                                 |                      |                     |                                  |               |                  |                |
| PEWH        | <i>Penstemon whippleanus</i>                              | <i>Penstemon whippleanus</i>                              |                      |                     |                                  |               |                  |                |
| PECA10      | <i>Pericome caudata</i>                                   | <i>Pericome caudata</i>                                   |                      |                     |                                  |               |                  |                |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                  | <i>Petalostemum candidum</i>                              |                      |                     |                                  |               |                  |                |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                | <i>Petalostemum compactum</i>                             |                      |                     |                                  |               |                  |                |
| DAEX2       | <i>Dalea exigua</i>                                       | <i>Petalostemum exile</i>                                 |                      |                     |                                  |               |                  |                |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                | <i>Petalostemum purpureum</i>                             |                      |                     |                                  |               |                  |                |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                  | <i>Petalostemum villosum</i>                              |                      |                     |                                  |               |                  |                |
| PHCO        | <i>Phacelia coerulea</i>                                  | <i>Phacelia coerulea</i>                                  |                      |                     |                                  |               |                  |                |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>           | <i>Phacelia corrugata</i>                                 |                      |                     |                                  |               |                  |                |
| PHHE2       | <i>Phacelia heterophylla</i>                              | <i>Phacelia heterophylla</i>                              |                      |                     |                                  |               |                  |                |
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              |                      |                     |                                  |               |                  |                |
| PHEG        | <i>Phacelia egena</i>                                     | <i>Phacelia magellanica</i>                               |                      |                     |                                  |               |                  |                |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       |                      |                     |                                  |               |                  |                |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            |                      |                     |                                  |               |                  |                |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              |                      |                     |                                  |               |                  |                |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> |                      |                     |                                  |               |                  |                |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     |                      |                     |                                  |               |                  |                |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    |                      |                     |                                  |               |                  |                |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   |                      |                     |                                  |               |                  |                |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             |                      |                     |                                  |               |                  |                |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                |                      |                     |                                  |               |                  |                |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           | Y                    | Fox & Potter (1978) | Did well in post-fire succession |               |                  |                |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        |                      |                     |                                  |               |                  |                |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 |                      |                     |                                  |               |                  |                |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|----------------|
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               |                      |                                         |                                                                                                                                                     |               |                  |                |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  |                      |                                         |                                                                                                                                                     |               |                  |                |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      |                      |                                         |                                                                                                                                                     |               |                  |                |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       |                      |                                         |                                                                                                                                                     |               |                  |                |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     |                      |                                         |                                                                                                                                                     |               |                  |                |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | Y                    | Thomas & Agee (1986); Harrington (1985) | Does well in post-fire succession in the absence of <i>Abies concolor</i> ; Does well in post-fire succession in absence of <i>Quercus gambelii</i> |               |                  |                |
| PLAR2       | <i>Plantago argyraea</i>                                  | <i>Plantago argyraea</i>                                  |                      |                                         |                                                                                                                                                     |               |                  |                |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     |                      |                                         |                                                                                                                                                     |               |                  |                |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   |                      |                                         |                                                                                                                                                     |               |                  |                |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          |                      |                                         |                                                                                                                                                     |               |                  |                |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      |                      |                                         |                                                                                                                                                     |               |                  |                |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      |                      |                                         |                                                                                                                                                     |               |                  |                |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    |                      |                                         |                                                                                                                                                     |               |                  |                |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       |                      |                                         |                                                                                                                                                     |               |                  |                |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    |                      |                                         |                                                                                                                                                     |               |                  |                |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     |                      |                                         |                                                                                                                                                     |               |                  |                |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      |                      |                                         |                                                                                                                                                     |               |                  |                |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    |                      |                                         |                                                                                                                                                     |               |                  |                |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | Y                    | Abrams & Hulbert (1987)                 | Does poorly in post-fire succession                                                                                                                 |               |                  |                |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             |                      |                                         |                                                                                                                                                     |               |                  |                |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> |                      |                                         |                                                                                                                                                     |               |                  |                |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        |                      |                                         |                                                                                                                                                     |               |                  |                |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                |                      |                                         |                                                                                                                                                     |               |                  |                |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             |                      |                                         |                                                                                                                                                     |               |                  |                |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              |                      |                                         |                                                                                                                                                     |               |                  |                |
| PODO4       | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                |                      |                                         |                                                                                                                                                     |               |                  |                |

## FIRE AND FLOOD CON'T

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|-------------|---------------------------------------------------|----------------------------------------------------|----------------------|---------------------|-----------------------------------|---------------|------------------|----------------|
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>  | <i>Polygonum montanum</i>                          |                      |                     |                                   |               |                  |                |
| POPE3       | <i>Polygonum persicaria</i>                       | <i>Polygonum persicaria</i>                        | Y                    | Vose & White (1987) | Does well in post-fire succession |               |                  |                |
| PORA3       | <i>Polygonum ramosissimum</i>                     | <i>Polygonum ramosissimum</i>                      |                      |                     |                                   |               |                  |                |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i> | <i>Polygonum sawatchense</i>                       |                      |                     |                                   |               |                  |                |
| POMO5       | <i>Polypogon monspeliensis</i>                    | <i>Polypogon monspeliensis</i>                     |                      |                     |                                   |               |                  |                |
| POAN3       | <i>Populus angustifolia</i>                       | <i>Populus angustifolia</i>                        |                      |                     |                                   |               |                  |                |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>    | <i>Populus fremontii</i> var. <i>wislizenii</i>    |                      |                     |                                   |               |                  |                |
| POTR5       | <i>Populus tremuloides</i>                        | <i>Populus tremuloides</i> var. <i>aurea</i>       |                      |                     |                                   |               |                  |                |
| POOL        | <i>Portulaca oleracea</i>                         | <i>Portulaca oleracea</i>                          |                      |                     |                                   |               |                  |                |
| ARAN7       | <i>Argentina anserina</i>                         | <i>Potentilla anserina</i>                         |                      |                     |                                   |               |                  |                |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>  | <i>Potentilla arguta</i> subsp. <i>convallaria</i> |                      |                     |                                   |               |                  |                |
| POCO13      | <i>Potentilla concinna</i>                        | <i>Potentilla concinna</i>                         |                      |                     |                                   |               |                  |                |
| POCR4       | <i>Potentilla crinita</i>                         | <i>Potentilla crinita</i>                          |                      |                     |                                   |               |                  |                |
| PEFL15      | <i>Pentaphylloides floribunda</i>                 | <i>Potentilla fruticosa</i>                        |                      |                     |                                   |               |                  |                |
| POHI6       | <i>Potentilla hippiana</i>                        | <i>Potentilla hippiana</i>                         |                      |                     |                                   |               |                  |                |
| PONO3       | <i>Potentilla norvegica</i>                       | <i>Potentilla norvegica</i>                        |                      |                     |                                   |               |                  |                |
| POPE8       | <i>Potentilla pennsylvanica</i>                   | <i>Potentilla pennsylvanica</i>                    |                      |                     |                                   |               |                  |                |
| POPU9       | <i>Potentilla pulcherrima</i>                     | <i>Potentilla pulcherrima</i>                      |                      |                     |                                   |               |                  |                |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>   | <i>Potentilla thurberi</i> var. <i>thurberi</i>    |                      |                     |                                   |               |                  |                |
| PRRU        | <i>Primula rusbyi</i>                             | <i>Primula rusbyi</i>                              |                      |                     |                                   |               |                  |                |
| PRVU        | <i>Prunella vulgaris</i>                          | <i>Prunella vulgaris</i>                           |                      |                     |                                   |               |                  |                |
| PRAM        | <i>Prunus americana</i>                           | <i>Prunus americana</i>                            |                      |                     |                                   |               |                  |                |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>   | <i>Prunus emarginata</i> var. <i>emarginata</i>    |                      |                     |                                   |               |                  |                |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>  | <i>Prunus virginiana</i> var. <i>melanocarpa</i>   |                      |                     |                                   |               |                  |                |
| PSMO        | <i>Pseudocymopterus montanus</i>                  | <i>Pseudocymopterus montanus</i>                   |                      |                     |                                   |               |                  |                |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>   | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>    |                      |                     |                                   |               |                  |                |
| PSTA        | <i>Psilostrophe tagetina</i>                      | <i>Psilotrophe tagetina</i>                        |                      |                     |                                   |               |                  |                |
| PEHYH       | <i>Pediomelum hypogaeum</i> var. <i>hypogaeum</i> | <i>Psoralea hypogaea</i>                           |                      |                     |                                   |               |                  |                |

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| PSLA3       | <i>Psoralidium lanceolatum</i>                            | <i>Psoralea lanceolata</i>                            |                      |                   |                                     |               |                  |                |
| PSTE5       | <i>Psoralidium tenuiflorum</i>                            | <i>Psoralea tenuiflora</i>                            |                      |                   |                                     |               |                  |                |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>         | <i>Ptelea trifoliata</i> susp <i>angustifolia</i>     |                      |                   |                                     |               |                  |                |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>          | <i>Pteridium aquilinum</i> var. <i>pubescens</i>      |                      |                   |                                     |               |                  |                |
| PTAN2       | <i>Pterospora andromedea</i>                              | <i>Pterospora andromedea</i>                          |                      |                   |                                     |               |                  |                |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>            | <i>Pulsatilla ludoviciana</i>                         |                      |                   |                                     |               |                  |                |
| PUTR2       | <i>Purshia tridentata</i>                                 | <i>Purshia tridentata</i>                             | Y                    | Wagstaff (1980)   | Fire reduced population and density |               |                  |                |
| PYAS        | <i>Pyrola asarifolia</i>                                  | <i>Pyrola asarifolia</i>                              |                      |                   |                                     |               |                  |                |
| PYCH        | <i>Pyrola chlorantha</i>                                  | <i>Pyrola chlorantha</i>                              |                      |                   |                                     |               |                  |                |
| PYEL        | <i>Pyrola elliptica</i>                                   | <i>Pyrola elliptica</i>                               |                      |                   |                                     |               |                  |                |
| PYMI        | <i>Pyrola minor</i>                                       | <i>Pyrola minor</i>                                   |                      |                   |                                     |               |                  |                |
| PYPI2       | <i>Pyrola picta</i>                                       | <i>Pyrola picta</i>                                   |                      |                   |                                     |               |                  |                |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       |                      |                   |                                     |               |                  |                |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               | Y                    | Harrington (1985) | Does well in post-fire succession   |               |                  |                |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 |                      |                   |                                     |               |                  |                |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                |                      |                   |                                     |               |                  |                |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             |                      |                   |                                     |               |                  |                |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               |                      |                   |                                     |               |                  |                |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              |                      |                   |                                     |               |                  |                |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           |                      |                   |                                     |               |                  |                |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   |                      |                   |                                     |               |                  |                |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       |                      |                   |                                     |               |                  |                |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> |                      |                   |                                     |               |                  |                |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           |                      |                   |                                     |               |                  |                |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            |                      |                   |                                     |               |                  |                |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          |                      |                   |                                     |               |                  |                |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   |                      |                   |                                     |               |                  |                |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           |                      |                   |                                     |               |                  |                |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               |                      |                   |                                     |               |                  |                |

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|-------------|----------------------------------------------------|------------------------------------------------|----------------------|-----------------------|-------------------------------------------|---------------|------------------|----------------|
| RHGL        | <i>Rhus glabra</i>                                 | <i>Rhus glabra</i>                             | Y                    | Adams et al. (1982)   | Does well with post-fire succession       |               |                  |                |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i> | <i>Rhus radicans</i>                           |                      |                       |                                           |               |                  |                |
| RHTR        | <i>Rhus trilobata</i>                              | <i>Rhus trilobata</i>                          |                      |                       |                                           |               |                  |                |
| RICE        | <i>Ribes cereum</i>                                | <i>Ribes cereum</i>                            | Y                    | Young & Bailey (1975) | Production improved by controlled burning |               |                  |                |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>        | <i>Ribes inebrians</i>                         |                      |                       |                                           |               |                  |                |
| RIIN2       | <i>Ribes inerme</i>                                | <i>Ribes inerme</i>                            |                      |                       |                                           |               |                  |                |
| RILE        | <i>Ribes leptanthum</i>                            | <i>Ribes leptanthum</i>                        |                      |                       |                                           |               |                  |                |
| RIMO2       | <i>Ribes montigenum</i>                            | <i>Ribes montigenum</i>                        |                      |                       |                                           |               |                  |                |
| RIPI        | <i>Ribes pinetorum</i>                             | <i>Ribes pinetorum</i>                         |                      |                       |                                           |               |                  |                |
| RIWO        | <i>Ribes wolfii</i>                                | <i>Ribes wolfii</i>                            |                      |                       |                                           |               |                  |                |
| RONE        | <i>Robinia neomexicana</i>                         | <i>Robinia neomexicana</i>                     |                      |                       |                                           |               |                  |                |
| ROIS2       | <i>Rorippa islandica</i>                           | <i>Rorippa islandica</i>                       |                      |                       |                                           |               |                  |                |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                | <i>Rorippa nasturtium-aquaticum</i>            |                      |                       |                                           |               |                  |                |
| ROTE2       | <i>Rorippa teres</i>                               | <i>Rorippa obtusa</i>                          |                      |                       |                                           |               |                  |                |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>feraldiana</i>    | <i>Rorippa palustris</i> subsp. <i>glabra</i>  |                      |                       |                                           |               |                  |                |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>       | <i>Rorippa palustris</i> subsp. <i>hispida</i> |                      |                       |                                           |               |                  |                |
| ROSI2       | <i>Rorippa sinuata</i>                             | <i>Rorippa sinuata</i>                         |                      |                       |                                           |               |                  |                |
| ROSY        | <i>Rorippa sylvestris</i>                          | <i>Rorippa sylvestris</i>                      |                      |                       |                                           |               |                  |                |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>       | <i>Rorippa truncata</i>                        |                      |                       |                                           |               |                  |                |
| RONU        | <i>Rosa nutkana</i>                                | <i>Rosa nutkana</i>                            |                      |                       |                                           |               |                  |                |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>            | <i>Rosa woodsii</i> var. <i>arizonica</i>      |                      |                       |                                           |               |                  |                |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>            | <i>Rosa woodsii</i> var. <i>fendleri</i>       |                      |                       |                                           |               |                  |                |
| RUPA        | <i>Rubus parviflorus</i>                           | <i>Rubus parviflorus</i>                       | Y                    | Klinka et al. (1989)  | Characteristic of post-fire succession    |               |                  |                |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>          | <i>Rubus strigosus</i> var. <i>arizonicus</i>  |                      |                       |                                           |               |                  |                |
| RUHI2       | <i>Rudbeckia hirta</i>                             | <i>Rudbeckia hirta</i>                         |                      |                       |                                           |               |                  |                |
| RULA3       | <i>Rudbeckia laciniata</i>                         | <i>Rudbeckia laciniata</i>                     |                      |                       |                                           |               |                  |                |
| RUAC3       | <i>Rumex acetosella</i>                            | <i>Rumex acetosella</i>                        |                      |                       |                                           |               |                  |                |
| RUCR        | <i>Rumex crispus</i>                               | <i>Rumex crispus</i>                           |                      |                       |                                           |               |                  |                |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>    | <i>Rumex mexicanus</i>                         |                      |                       |                                           |               |                  |                |

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| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                |                      |                |               |               |                  |                |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   |                      |                |               |               |                  |                |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             |                      |                |               |               |                  |                |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    |                      |                |               |               |                  |                |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     |                      |                |               |               |                  |                |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      |                      |                |               |               |                  |                |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    |                      |                |               |               |                  |                |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 |                      |                |               |               |                  |                |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  |                      |                |               |               |                  |                |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    |                      |                |               |               |                  |                |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  |                      |                |               |               |                  |                |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              |                      |                |               |               |                  |                |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |                      |                |               |               |                  |                |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                |                      |                |               |               |                  |                |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             |                      |                |               |               |                  |                |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           |                      |                |               |               |                  |                |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> |                      |                |               |               |                  |                |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              |                      |                |               |               |                  |                |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         |                      |                |               |               |                  |                |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           |                      |                |               |               |                  |                |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           |                      |                |               |               |                  |                |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              |                      |                |               |               |                  |                |
| SECO        | <i>Sedum cockerellii</i>                               | <i>Sedum cockerellii</i>                                 |                      |                |               |               |                  |                |
| SEAR3       | <i>Senecio arizonicus</i>                              | <i>Senecio arizonicus</i>                                |                      |                |               |               |                  |                |
| SEAT        | <i>Senecio atratus</i>                                 | <i>Senecio atratus</i>                                   |                      |                |               |               |                  |                |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>         | <i>Senecio bigelovii</i> var. <i>bigelovii</i>           |                      |                |               |               |                  |                |
| SECR        | <i>Senecio crassulus</i>                               | <i>Senecio crassulus</i>                                 |                      |                |               |               |                  |                |
| SECY        | <i>Senecio cymbalarioides</i>                          | <i>Senecio cymbalarioides</i>                            |                      |                |               |               |                  |                |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>         | <i>Senecio douglasii</i> var. <i>longilobus</i>          |                      |                |               |               |                  |                |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougalii</i>     | <i>Senecio eremophilus</i> var. <i>macdougalii</i>       |                      |                |               |               |                  |                |

## FIRE AND FLOOD CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)     | Associated with Fire | Fire Reference | Fire Comments | Flooded Areas | Flood References | Flood Comments |
|-------------|-------------------------------------------------------|--------------------------------|----------------------|----------------|---------------|---------------|------------------|----------------|
| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>      |                      |                |               |               |                  |                |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>        |                      |                |               |               |                  |                |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>  |                      |                |               |               |                  |                |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>    |                      |                |               |               |                  |                |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>    |                      |                |               |               |                  |                |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>     |                      |                |               |               |                  |                |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>    |                      |                |               |               |                  |                |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>     |                      |                |               |               |                  |                |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>    |                      |                |               |               |                  |                |
| SEWE2       | <i>Senecio wernerifolius</i>                          | <i>Senecio werneriaefolius</i> |                      |                |               |               |                  |                |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>        |                      |                |               |               |                  |                |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>      |                      |                |               |               |                  |                |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>       |                      |                |               |               |                  |                |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>    |                      |                |               |               |                  |                |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>         |                      |                |               |               |                  |                |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>        |                      |                |               |               |                  |                |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>       |                      |                |               |               |                  |                |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>       |                      |                |               |               |                  |                |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>         |                      |                |               |               |                  |                |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>   |                      |                |               |               |                  |                |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>        |                      |                |               |               |                  |                |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>   |                      |                |               |               |                  |                |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>   |                      |                |               |               |                  |                |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>   |                      |                |               |               |                  |                |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystrix</i>        |                      |                |               |               |                  |                |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>    | <i>Smilacina racemosa</i>      |                      |                |               |               |                  |                |
| MAST4       | <i>Maianthemum stellatum</i>                          | <i>Smilacina stellata</i>      |                      |                |               |               |                  |                |
| SOAM        | <i>Solanum americanum</i>                             | <i>Solanum americanum</i>      |                      |                |               |               |                  |                |
| SODO        | <i>Solanum douglasii</i>                              | <i>Solanum douglasii</i>       |                      |                |               |               |                  |                |
| SOEL        | <i>Solanum elaeagnifolium</i>                         | <i>Solanum elaeagnifolium</i>  |                      |                |               |               |                  |                |
| SOJA        | <i>Solanum jamesii</i>                                | <i>Solanum jamesii</i>         |                      |                |               |               |                  |                |

# **FIRE AND FLOOD CON'T**

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|-------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------|-------------------------|-----------------------------------|---------------|------------------|---------------------------------------|
| SOPT3       | <i>Solanum ptychanthum</i>                                      | <i>Solanum nigrum</i>                                 |                      |                         |                                   |               |                  |                                       |
| SORO        | <i>Solanum rostratum</i>                                        | <i>Solanum rostratum</i>                              |                      |                         |                                   |               |                  |                                       |
| SOSA        | <i>Solanum sarrachoides</i>                                     | <i>Solanum sarachoides</i>                            |                      |                         |                                   |               |                  |                                       |
| SOTR        | <i>Solanum triflorum</i>                                        | <i>Solanum triflorum</i>                              |                      |                         |                                   |               |                  |                                       |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             |                      |                         |                                   |               |                  |                                       |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     |                      |                         |                                   | Y             | Ganskopp (1986)  | Does poorly under flood-ed conditions |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> |                      |                         |                                   |               |                  |                                       |
| SOMO        | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                |                      |                         |                                   |               |                  |                                       |
| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          |                      |                         |                                   |               |                  |                                       |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          |                      |                         |                                   |               |                  |                                       |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               |                      |                         |                                   |               |                  |                                       |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            |                      |                         |                                   |               |                  |                                       |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           |                      |                         |                                   |               |                  |                                       |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    |                      |                         |                                   |               |                  |                                       |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         |                      |                         |                                   |               |                  |                                       |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  |                      |                         |                                   |               |                  |                                       |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              |                      |                         |                                   |               |                  |                                       |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            |                      |                         |                                   |               |                  |                                       |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             | Y                    | Abrams & Hulbert (1987) | Does well in post-fire succession |               |                  |                                       |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             |                      |                         |                                   |               |                  |                                       |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> |                      |                         |                                   |               |                  |                                       |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         |                      |                         |                                   |               |                  |                                       |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      |                      |                         |                                   |               |                  |                                       |
| SPIN2       | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             |                      |                         |                                   |               |                  |                                       |
| SPIN3       | <i>Sphenopholis intermedia</i>                                  | <i>Sphenopholis intermedia</i>                        |                      |                         |                                   |               |                  |                                       |
| SPAI        | <i>Sporobolus airoides</i>                                      | <i>Sporobolus airoides</i>                            |                      |                         |                                   |               |                  |                                       |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i>             | <i>Sporobolus asper</i>                               |                      |                         |                                   |               |                  |                                       |



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| SPCO4       | <i>Sporobolus contractus</i>                    | <i>Sporobolus contractus</i>                    |                      |                |               |               |                  |                |
| SPCR        | <i>Sporobolus cryptandrus</i>                   | <i>Sporobolus cryptandrus</i>                   |                      |                |               |               |                  |                |
| SPNE        | <i>Sporobolus nealleyi</i>                      | <i>Sporobolus nealleyi</i>                      |                      |                |               |               |                  |                |
| SPT5        | <i>Sporobolus texanus</i>                       | <i>Sporobolus texanus</i>                       |                      |                |               |               |                  |                |
| STPA        | <i>Stachys palustris</i>                        | <i>Stachys palustris</i>                        |                      |                |               |               |                  |                |
| STPI        | <i>Stanleya pinnata</i>                         | <i>Stanleya pinnata</i>                         |                      |                |               |               |                  |                |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                | <i>Stellaria jamesiana</i>                      |                      |                |               |               |                  |                |
| STLO        | <i>Stellaria longifolia</i>                     | <i>Stellaria longifolia</i>                     |                      |                |               |               |                  |                |
| STLO2       | <i>Stellaria longipes</i>                       | <i>Stellaria longipes</i>                       |                      |                |               |               |                  |                |
| STPA4       | <i>Stephanomeria pauciflora</i>                 | <i>Stephanomeria pauciflora</i>                 |                      |                |               |               |                  |                |
| STTE2       | <i>Stephanomeria tenuifolia</i>                 | <i>Stephanomeria tenuifolia</i>                 |                      |                |               |               |                  |                |
| ACNED       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>   | <i>Stipa columbiana</i>                         |                      |                |               |               |                  |                |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>   | <i>Stipa comata</i>                             |                      |                |               |               |                  |                |
| ACEM4       | <i>Achnatherum eminens</i>                      | <i>Stipa eminens</i>                            |                      |                |               |               |                  |                |
| ACLE9       | <i>Achnatherum lettermanii</i>                  | <i>Stipa lettermanii</i>                        |                      |                |               |               |                  |                |
| HENE5       | <i>Hesperostipa neomexicana</i>                 | <i>Stipa neomexicana</i>                        |                      |                |               |               |                  |                |
| ACRO7       | <i>Achnatherum robustum</i>                     | <i>Stipa robusta</i>                            |                      |                |               |               |                  |                |
| STCO6       | <i>Streptanthus cordatus</i>                    | <i>Streptanthus cordatus</i>                    |                      |                |               |               |                  |                |
| STAM2       | <i>Streptopus amplexifolius</i>                 | <i>Streptopus amplexifolius</i>                 |                      |                |               |               |                  |                |
| FRSP        | <i>Frasera speciosa</i>                         | <i>Swertia radiata</i>                          |                      |                |               |               |                  |                |
| SYOC        | <i>Symphoricarpos occidentalis</i>              | <i>Symphoricarpos occidentalis</i>              |                      |                |               |               |                  |                |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                | <i>Symphoricarpos oreophilus</i>                |                      |                |               |               |                  |                |
| SYOR        | <i>Symphoricarpos orbiculatus</i>               | <i>Symphoricarpos rotundifolius</i>             |                      |                |               |               |                  |                |
| TAPA3       | <i>Talinum parviflorum</i>                      | <i>Talinum parviflorum</i>                      |                      |                |               |               |                  |                |
| TAGA        | <i>Tamarix gallica</i>                          | <i>Tamarix gallica</i>                          |                      |                |               |               |                  |                |
| TACH2       | <i>Tamarix chinensis</i>                        | <i>Tamarix pentandra</i>                        |                      |                |               |               |                  |                |
| TALA2       | <i>Taraxacum laevigatum</i>                     | <i>Taraxacum laevigatum</i>                     |                      |                |               |               |                  |                |
| TAOF        | <i>Taraxacum officinale</i>                     | <i>Taraxacum officinale</i>                     |                      |                |               |               |                  |                |
| TECA2       | <i>Tetradymia canescens</i>                     | <i>Tetradymia canescens</i>                     |                      |                |               |               |                  |                |
| TECA2       | <i>Tetradymia canescens</i>                     | <i>Tetradymia canescens</i> var. <i>inermis</i> |                      |                |               |               |                  |                |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i> | <i>Thalictrum fendleri</i> var. <i>fendleri</i> |                      |                |               |               |                  |                |

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| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      |                      |                |               |               |                  |                |
| THME        | <i>Thelesperma megapotamicum</i>                            | <i>Thelesperma megapotamicum</i>                           |                      |                |               |               |                  |                |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>        | <i>Thelesperma trifidum</i>                                |                      |                |               |               |                  |                |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i>  | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> |                      |                |               |               |                  |                |
| THWR        | <i>Thelypodium wrightii</i>                                 | <i>Thelypodium wrightii</i>                                |                      |                |               |               |                  |                |
| THMO6       | <i>Thermopsis montana</i>                                   | <i>Thermopsis montanum</i>                                 |                      |                |               |               |                  |                |
| THDI4       | <i>Thermopsis divaricarpa</i>                               | <i>Thermopsis pinetorum</i>                                |                      |                |               |               |                  |                |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>                | <i>Thlaspi alpestre</i>                                    |                      |                |               |               |                  |                |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>          | <i>Torreyochloa pauciflora</i>                             |                      |                |               |               |                  |                |
| TOAN        | <i>Townsendia annua</i>                                     | <i>Townsendia annua</i>                                    |                      |                |               |               |                  |                |
| TOEX        | <i>Townsendia eximia</i>                                    | <i>Townsendia eximia</i>                                   |                      |                |               |               |                  |                |
| TOFO        | <i>Townsendia formosa</i>                                   | <i>Townsendia formosa</i>                                  |                      |                |               |               |                  |                |
| TOIN        | <i>Townsendia incana</i>                                    | <i>Townsendia incana</i>                                   |                      |                |               |               |                  |                |
| TOEX2       | <i>Townsendia exscapa</i>                                   | <i>Townsendia exscapa</i>                                  |                      |                |               |               |                  |                |
| TRNE        | <i>Tragia nepetifolia</i>                                   | <i>Tragia nepetaefolia</i>                                 |                      |                |               |               |                  |                |
| TRDU        | <i>Tragopogon dubius</i>                                    | <i>Tragopogon dubius</i>                                   |                      |                |               |               |                  |                |
| TRPR        | <i>Tragopogon pratensis</i>                                 | <i>Tragopogon pratensis</i>                                |                      |                |               |               |                  |                |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                               |                      |                |               |               |                  |                |
| TRTE        | <i>Tribulus terrestris</i>                                  | <i>Tribulus terrestris</i>                                 |                      |                |               |               |                  |                |
| ERPU8       | <i>Erioneuron pulchellum</i>                                | <i>Tridens pulchellus</i>                                  |                      |                |               |               |                  |                |
| TRDA2       | <i>Trifolium dasyphyllum</i>                                | <i>Trifolium dasyphyllum</i>                               |                      |                |               |               |                  |                |
| TRHY        | <i>Trifolium hybridum</i>                                   | <i>Trifolium hybridum</i>                                  |                      |                |               |               |                  |                |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>             | <i>Trifolium lacerum</i>                                   |                      |                |               |               |                  |                |
| TRPR2       | <i>Trifolium pratense</i>                                   | <i>Trifolium pratense</i>                                  |                      |                |               |               |                  |                |
| TRCA5       | <i>Trifolium campestre</i>                                  | <i>Trifolium procumbens</i>                                |                      |                |               |               |                  |                |
| TRRE3       | <i>Trifolium repens</i>                                     | <i>Trifolium repens</i>                                    |                      |                |               |               |                  |                |
| TRPE4       | <i>Triodanis perfoliata</i>                                 | <i>Triodanis perfoliata</i>                                |                      |                |               |               |                  |                |
| TRMO5       | <i>Trisetum montanum</i>                                    | <i>Trisetum montanum</i>                                   |                      |                |               |               |                  |                |
| TRSP2       | <i>Trisetum spicatum</i>                                    | <i>Trisetum spicatum</i>                                   |                      |                |               |               |                  |                |

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| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                               |                      |                |               |               |                  |                |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         |                      |                |               |               |                  |                |
| URGR        | <i>Urtica gracilentia</i>                                  | <i>Urtica gracilentia</i>                            |                      |                |               |               |                  |                |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               |                      |                |               |               |                  |                |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           |                      |                |               |               |                  |                |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           |                      |                |               |               |                  |                |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    |                      |                |               |               |                  |                |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         |                      |                |               |               |                  |                |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             |                      |                |               |               |                  |                |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         |                      |                |               |               |                  |                |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             |                      |                |               |               |                  |                |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             |                      |                |               |               |                  |                |
| VEMA        | <i>Verbena macdougalii</i>                                 | <i>Verbena macdougalii</i>                           |                      |                |               |               |                  |                |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              |                      |                |               |               |                  |                |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> |                      |                |               |               |                  |                |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            |                      |                |               |               |                  |                |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             |                      |                |               |               |                  |                |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     |                      |                |               |               |                  |                |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        |                      |                |               |               |                  |                |
| VEWO2       | <i>Veronica wormskjoldii</i>                               | <i>Veronica wormskjoldii</i>                         |                      |                |               |               |                  |                |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              |                      |                |               |               |                  |                |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>               | <i>Vicia americana</i> var. <i>americana</i>         |                      |                |               |               |                  |                |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>linearis</i>          |                      |                |               |               |                  |                |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>             |                      |                |               |               |                  |                |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>           | <i>Vicia exigua</i>                                  |                      |                |               |               |                  |                |
| VILE3       | <i>Vicia leucophaea</i>                                    | <i>Vicia leucophaea</i>                              |                      |                |               |               |                  |                |
| VICO        | <i>Viguiera cordifolia</i>                                 | <i>Viguiera cordifolia</i>                           |                      |                |               |               |                  |                |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i>        | <i>Viguiera multiflora</i>                           |                      |                |               |               |                  |                |
| VIAD        | <i>Viola adunca</i>                                        | <i>Viola adunca</i>                                  |                      |                |               |               |                  |                |
| VICA4       | <i>Viola canadensis</i>                                    | <i>Viola canadensis</i>                              |                      |                |               |               |                  |                |

## FIRE AND FLOOD CON'T

| USDA Symbol | USDA NRCS PLANTS                                 | Martin and Hutchins (1980)                       | Associated with Fire | Fire Reference | Fire Comments | Flooded Areas | Flood References | Flood Comments |
|-------------|--------------------------------------------------|--------------------------------------------------|----------------------|----------------|---------------|---------------|------------------|----------------|
| VISO        | <i>Viola sororia</i>                             | <i>Viola nephrophylla</i>                        |                      |                |               |               |                  |                |
| VIPE2       | <i>Viola pedatifida</i>                          | <i>Viola pedatifida</i>                          |                      |                |               |               |                  |                |
| VIAR2       | <i>Vitis arizonica</i>                           | <i>Vitis arizonica</i> var. <i>arizonica</i>     |                      |                |               |               |                  |                |
| VIVU        | <i>Vitis vulpina</i>                             | <i>Vitis vulpina</i>                             |                      |                |               |               |                  |                |
|             |                                                  | <i>Woodsia mexicana</i>                          |                      |                |               |               |                  |                |
| WOOR        | <i>Woodsia oregana</i>                           | <i>Woodsia oregana</i>                           |                      |                |               |               |                  |                |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i> | <i>Xanthium strumarium</i> var. <i>canadense</i> |                      |                |               |               |                  |                |
| YUAN2       | <i>Yucca angustissima</i>                        | <i>Yucca angustissima</i>                        |                      |                |               |               |                  |                |
| YUBA        | <i>Yucca baccata</i>                             | <i>Yucca baccata</i>                             |                      |                |               |               |                  |                |
| YUGL        | <i>Yucca glauca</i>                              | <i>Yucca glauca</i>                              |                      |                |               |               |                  |                |
| ZIGR        | <i>Zinnia grandiflora</i>                        | <i>Zinnia grandiflora</i>                        |                      |                |               |               |                  |                |
| ZIEL2       | <i>Zigadenus elegans</i>                         | <i>Zygadenus elegans</i>                         |                      |                |               |               |                  |                |

**Key for heading acronyms and abbreviations:**

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

## GROWTH POTENTIAL



Hedgehog Cactus

## GROWTH POTENTIAL

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Potential Biomass | Gentle Slopes | Moderate Slopes | Steep Slopes |
|--------------|------------------------------------------------------|-------------------------------------------------|-------------------|---------------|-----------------|--------------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | Medium            | Good          | Good            | Good         |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | Medium            | Good          | Good            | Good         |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    | Medium            | Good          | Good            | Fair         |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        | Medium            | Good          | Fair            | Poor         |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> |                   |               |                 |              |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     | Medium            | Good          | Good            | Fair         |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    |                   |               |                 |              |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      |                   |               |                 |              |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   |                   |               |                 |              |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       |                   |               |                 |              |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      |                   |               |                 |              |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       | Low               | Good          | Good            | Poor         |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |                   |               |                 |              |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    |                   |               |                 |              |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        |                   |               |                 |              |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   | Medium            | Good          | Good            | Fair         |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     |                   | Good          | Good            | Fair         |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |                   |               |                 |              |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   |                   |               |                 |              |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         |                   |               |                 |              |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        | High              | Good          | Good            | Fair         |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    |                   |               |                 |              |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   |                   | Good          | Good            | Fair         |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            |                   |               |                 |              |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         | Low               | Good          | Fair            | Poor         |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      |                   | Good          | Good            | Fair         |
| AGPE         | <i>Agrostis perennans</i>                            | <i>Agrostis perennans</i>                       |                   |               |                 |              |
| AGSC5        | <i>Agrostis scabra</i>                               | <i>Agrostis scabra</i>                          |                   | Good          | Good            | Poor         |
| POVI9        | <i>Polypogon viridis</i>                             | <i>Agrostis semiverticillata</i>                |                   |               |                 |              |
| AGST2        | <i>Agrostis stolonifera</i>                          | <i>Agrostis stolonifera</i>                     | Medium            | Good          | Fair            | Poor         |
| AIAL         | <i>Ailanthus altissima</i>                           | <i>Ailanthus altissima</i>                      |                   |               |                 |              |
| ALCEO        | <i>Allium cernuum</i> var. <i>obtusum</i>            | <i>Allium cernuum</i> var. <i>obtusum</i>       |                   | Good          | Good            | Fair         |
| ALGE         | <i>Allium geyeri</i>                                 | <i>Allium geyeri</i>                            |                   |               |                 |              |
| ALMA4        | <i>Allium macropetalum</i>                           | <i>Allium macropetalum</i>                      |                   |               |                 |              |
| ALTE         | <i>Allium textile</i>                                | <i>Allium textile</i>                           |                   | Good          | Good            | Fair         |

\* A key for heading acronyms and abbreviations is on the last page of this table.

## GROWTH POTENTIAL CON'T

| USDA Symbol            | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                              | Potential Biomass | Gentle Slopes | Moderate Slopes | Steep Slopes |
|------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| ALOB2                  | <i>Alnus oblongifolia</i>                                                              | <i>Alnus oblongifolia</i>                               |                   |               |                 |              |
| ALINT                  | <i>Alnus incana</i> ssp. <i>tenuifolia</i>                                             | <i>Alnus tenuifolia</i>                                 | Medium            | Good          | Good            | Poor         |
| ALAE                   | <i>Alopecurus aequalis</i>                                                             | <i>Alopecurus aequalis</i>                              |                   |               |                 |              |
| ALRO3                  | <i>Alcea rosea</i>                                                                     | <i>Althaea rosea</i>                                    |                   |               |                 |              |
| AMAL                   | <i>Amaranthus albus</i>                                                                | <i>Amaranthus albus</i>                                 |                   |               |                 |              |
| AMAL;<br>AMBL          | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>                            |                   |               |                 |              |
| AMHY                   | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                              |                   |               |                 |              |
| AMHY2                  | <i>Amaranthus hypochondriacus</i> L.                                                   | <i>Amaranthus leucocarpus</i>                           |                   |               |                 |              |
| AMPA                   | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                               |                   |               |                 |              |
| AMPO2                  | <i>Amaranthus powellii</i> S. Wats.                                                    | <i>Amaranthus powellii</i>                              |                   |               |                 |              |
| AMRE                   | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>                           |                   | Good          | Good            | Fair         |
| AMAR;<br>AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                               |                   |               |                 |              |
| AMAR2                  | <i>Ambrosia artemisiifolia</i>                                                         | <i>Ambrosia artemisiifolia</i>                          |                   | Good          | Good            | Fair         |
| AMPS                   | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>                            | Medium            | Good          | Fair            | Poor         |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier bakeri</i>                               |                   |               |                 |              |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier oreophila</i>                            |                   |               |                 |              |
| AMPU5                  | <i>Amelanchier pumila</i>                                                              | <i>Amelanchier polycarpa</i>                            |                   |               |                 |              |
| AMUT                   | <i>Amelanchier utahensis</i>                                                           | <i>Amelanchier utahensis</i>                            |                   |               |                 |              |
| AMCA6                  | <i>Amorpha canescens</i>                                                               | <i>Amorpha canescens</i>                                |                   |               |                 |              |
| AMFR                   | <i>Amorpha fruticosa</i>                                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i>       |                   |               |                 |              |
| AMNA                   | <i>Amorpha nana</i>                                                                    | <i>Amorpha nana</i>                                     |                   |               |                 |              |
| ANAR                   | <i>Anagallis arvensis</i>                                                              | <i>Anagallis arvensis</i>                               |                   |               |                 |              |
| ANMA                   | <i>Anaphalis margaritacea</i>                                                          | <i>Anaphalis margaritacea</i>                           | Low               | Good          | Good            | Fair         |
| BOBAB                  | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>                                  | <i>Andropogon barbinodis</i>                            |                   |               |                 |              |
| ANGE                   | <i>Andropogon gerardii</i>                                                             | <i>Andropogon gerardii</i>                              | High              | Good          | Good            | Poor         |
| ANHA                   | <i>Andropogon hallii</i>                                                               | <i>Andropogon hallii</i>                                | High              | Good          | Good            | Fair         |
| BOSA                   | <i>Bothriochloa saccharoides</i>                                                       | <i>Andropogon saccharoides</i>                          |                   |               |                 |              |
| SCSCS2                 | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>                                   | <i>Andropogon scoparius</i>                             | High              | Good          | Good            | Fair         |
| BOSP3                  | <i>Bothriochloa springfieldii</i>                                                      | <i>Andropogon springfieldii</i>                         |                   |               |                 |              |
| BOWR2                  | <i>Bothriochloa wrightii</i>                                                           | <i>Andropogon wrightii</i>                              |                   |               |                 |              |
| ANSES4                 | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>                                | <i>Androsace septentrionalis</i> var. <i>subulifera</i> |                   |               |                 |              |
| ANCY                   | <i>Anemone cylindrica</i>                                                              | <i>Anemone cylindrica</i>                               |                   |               |                 |              |
| ANPI2                  | <i>Angelica pinnata</i>                                                                | <i>Angelica pinnata</i>                                 |                   |               |                 |              |
| ANCR2                  | <i>Anoda cristata</i>                                                                  | <i>Anoda cristata</i> var. <i>digitata</i>              |                   |               |                 |              |
| ANMA5                  | <i>Antennaria marginata</i>                                                            | <i>Antennaria marginata</i>                             |                   |               |                 |              |
| ANPA4                  | <i>Antennaria parvifolia</i>                                                           | <i>Antennaria parvifolia</i>                            |                   | Good          | Fair            | Poor         |

## GROWTH POTENTIAL CON'T

| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Potential Biomass | Gentle Slopes | Moderate Slopes | Steep Slopes |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| ANRO2       | <i>Antennaria rosea</i>                                       | <i>Antennaria rosea</i>                                       | Very Low          | Good          | Good            | Fair         |
| ANRO3       | <i>Antennaria rosulata</i>                                    | <i>Antennaria rosulata</i>                                    |                   |               |                 |              |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               |                   |               |                 |              |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> |                   |               |                 |              |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            | Medium            | Good          | Good            | Poor         |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            |                   |               |                 |              |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     |                   |               |                 |              |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   |                   |               |                 |              |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   |                   |               |                 |              |
| AQTR        | <i>Aquilegia tritemata</i>                                    | <i>Aquilegia tritemata</i>                                    |                   |               |                 |              |
| ARDI2       | <i>Arabis X divaricarpa</i>                                   | <i>Arabis divaricarpa</i>                                     |                   |               |                 |              |
| ARDR        | <i>Arabis drummondii</i>                                      | <i>Arabis drummondii</i>                                      | Low               | Good          | Good            | Fair         |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | <i>Arabis fendleri</i> var. <i>fendleri</i>                   |                   |               |                 |              |
| ARGL        | <i>Arabis glabra</i>                                          | <i>Arabis glabra</i>                                          |                   |               |                 |              |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  |                   |               |                 |              |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | <i>Arabis holboellii</i> var. <i>retrofracta</i>              |                   |               |                 |              |
| ARPE2       | <i>Arabis perennans</i>                                       | <i>Arabis perennans</i>                                       |                   |               |                 |              |
| ARRA        | <i>Aralia racemosa</i>                                        | <i>Aralia racemosa</i>                                        |                   |               |                 |              |
| ARDI3       | <i>Arceuthobium divaricatum</i>                               | <i>Arceuthobium divaricatum</i>                               |                   |               |                 |              |
| ARD0        | <i>Arceuthobium douglasii</i>                                 | <i>Arceuthobium douglasii</i>                                 |                   |               |                 |              |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodium</i>        | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodium</i>      |                   |               |                 |              |
| ARPU5       | <i>Arctostaphylos pungens</i>                                 | <i>Arctostaphylos pungens</i>                                 |                   |               |                 |              |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                                | <i>Arctostaphylos uva-ursi</i>                                | Low               | Good          | Good            | Good         |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>                 | <i>Arenaria confusa</i>                                       |                   |               |                 |              |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               |                   |               |                 |              |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 | Very Low          | Good          | Good            | Fair         |
| MOMA3       | <i>Moehringia macrophylla</i>                                 | <i>Arenaria macrophylla</i>                                   |                   |               |                 |              |
| ARAD        | <i>Aristida adscensionis</i>                                  | <i>Aristida adscensionis</i>                                  |                   |               |                 |              |
| ARAR6       | <i>Aristida arizonica</i>                                     | <i>Aristida arizonica</i>                                     |                   |               |                 |              |
| ARHA3       | <i>Aristida havardii</i>                                      | <i>Aristida barbata</i>                                       |                   |               |                 |              |
| ARDI5       | <i>Aristida divaricata</i>                                    | <i>Aristida divaricata</i>                                    |                   |               |                 |              |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>              | <i>Aristida fendleriana</i>                                   |                   |               | Good            |              |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>                | <i>Aristida longiseta</i>                                     | Medium            | Good          | Good            | Fair         |
| ARPU9       | <i>Aristida purpurea</i>                                      | <i>Aristida purpurea</i>                                      |                   |               |                 |              |
| ARBI3       | <i>Artemisia bigelovii</i>                                    | <i>Artemisia bigelovii</i>                                    |                   | Good          | Good            | Fair         |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>              | <i>Artemisia campestris</i> subsp. <i>pacifica</i>            |                   |               |                 |              |
| ARCA13      | <i>Artemisia cana</i>                                         | <i>Artemisia cana</i>                                         |                   | Good          | Good            | Fair         |



## GROWTH POTENTIAL CON'T

| USDA Symbol | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                             | Potential Biomass | Gentle Slopes | Moderate Slopes | Steep Slopes |
|-------------|------------------------------------------------------|--------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| ARCA14      | <i>Artemisia carruthii</i>                           | <i>Artemisia carruthii</i>                             |                   |               |                 |              |
| ARDR4       | <i>Artemisia dracunculus</i>                         | <i>Artemisia dracunculus</i>                           | Medium            | Good          | Good            | Fair         |
| ARFI2       | <i>Artemisia filifolia</i>                           | <i>Artemisia filifolia</i>                             | High              | Good          | Good            | Fair         |
| ARFR3       | <i>Artemisia franserioides</i>                       | <i>Artemisia franserioides</i>                         |                   |               |                 |              |
| ARFR4       | <i>Artemisia frigida</i>                             | <i>Artemisia frigida</i>                               | Medium            | Good          | Good            | Fair         |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>      | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>      |                   |               |                 |              |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> | Medium            | Good          | Fair            | Fair         |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>    |                   |               |                 |              |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>     | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>    |                   |               |                 |              |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>    | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>     |                   |               |                 |              |
| ARTR2       | <i>Artemisia tridentata</i>                          | <i>Artemisia tridentata</i>                            | High              | Good          | Good            | Fair         |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>       | <i>Asclepias asperula</i> subsp. <i>asperula</i>       |                   |               |                 |              |
| ASEN        | <i>Asclepias engelmanniana</i>                       | <i>Asclepias engelmanniana</i>                         |                   |               |                 |              |
| ASIN14      | <i>Asclepias involucrata</i>                         | <i>Asclepias involucrata</i>                           |                   |               |                 |              |
| ASMA        | <i>Asclepias macrotis</i>                            | <i>Asclepias macrotis</i>                              |                   |               |                 |              |
| ASSP        | <i>Asclepias speciosa</i>                            | <i>Asclepias speciosa</i>                              | Medium            | Good          | Fair            | Poor         |
| ASSU2       | <i>Asclepias subverticillata</i>                     | <i>Asclepias subverticillata</i>                       |                   | Good          | Fair            | Poor         |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>       | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>     |                   |               |                 |              |
| ASVI        | <i>Asclepias viridiflora</i>                         | <i>Asclepias viridiflora</i>                           |                   |               |                 |              |
| ASOF        | <i>Asparagus officinalis</i>                         | <i>Asparagus officinalis</i>                           |                   | Good          | Good            | Poor         |
| ASTR2       | <i>Asplenium trichomanes</i>                         | <i>Asplenium trichomanes</i>                           |                   |               |                 |              |
| ASER3       | <i>Aster ericoides</i>                               | <i>Aster ericoides</i>                                 | Medium            | Good          | Fair            | Poor         |
| ASFE        | <i>Aster fendleri</i>                                | <i>Aster fendleri</i>                                  |                   |               |                 |              |
| ASFO        | <i>Aster foliaceus</i>                               | <i>Aster foliaceus</i>                                 |                   | Good          | Good            | Fair         |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>         | <i>Aster glaucodes</i> var. <i>glaucodes</i>           |                   |               |                 |              |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>       | <i>Aster hesperius</i>                                 |                   |               |                 |              |
| ASLA5       | <i>Aster laevis</i>                                  | <i>Aster laevis</i>                                    |                   |               |                 |              |
| ASNO        | <i>Aster novae-angliae</i>                           | <i>Aster novae-angliae</i>                             |                   |               |                 |              |
| ASOC        | <i>Aster occidentalis</i>                            | <i>Aster occidentalis</i>                              |                   |               |                 |              |
| ALPA14      | <i>Almutaster pauciflorus</i>                        | <i>Aster pauciflorus</i>                               |                   |               |                 |              |
| ASPR2       | <i>Aster praealtus</i>                               | <i>Aster praealtus</i>                                 |                   |               |                 |              |
| ASAG2       | <i>Astragalus agrestis</i>                           | <i>Astragalus agrestis</i>                             |                   |               |                 |              |
| ASAM5       | <i>Astragalus amphioxys</i>                          | <i>Astragalus amphioxys</i>                            |                   |               |                 |              |
| ASBI2       | <i>Astragalus bisulcatus</i>                         | <i>Astragalus bisulcatus</i>                           | Medium            | Good          | Good            | Fair         |
| ASCR2       | <i>Astragalus crassicaupus</i>                       | <i>Astragalus crassicaupus</i>                         |                   | Good          | Fair            | Poor         |
| ASEM2       | <i>Astragalus emoryanus</i>                          | <i>Astragalus emoryanus</i>                            |                   |               |                 |              |
| ASFL2       | <i>Astragalus flexuosus</i>                          | <i>Astragalus flexuosus</i>                            | Low               | Good          | Good            | Fair         |
| ASGR3       | <i>Astragalus gracilis</i>                           | <i>Astragalus gracilis</i>                             |                   |               |                 |              |
| ASHU2       | <i>Astragalus humistratus</i>                        | <i>Astragalus humistratus</i>                          |                   |               |                 |              |

## GROWTH POTENTIAL CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                                | Potential Biomass | Gentle Slopes | Moderate Slopes | Steep Slopes |
|-------------|-------------------------------------------------------------|-----------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>      | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     |                   |               |                 |              |
| ASLE8       | <i>Astragalus lentiginosus</i>                              | <i>Astragalus lentiginosus</i>                            |                   |               |                 |              |
| ASLO3       | <i>Astragalus lonchocarpus</i>                              | <i>Astragalus lonchocarpus</i>                            |                   |               |                 |              |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i>   | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | Low               | Good          | Good            | Poor         |
| ASMO7       | <i>Astragalus mollissimus</i>                               | <i>Astragalus mollissimus</i>                             | Medium            | Good          | Fair            | Poor         |
| ASPR5       | <i>Astragalus praelongus</i>                                | <i>Astragalus praelongus</i>                              |                   |               |                 |              |
| ASSH3       | <i>Astragalus shortianus</i>                                | <i>Astragalus shortianus</i>                              |                   |               |                 |              |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>         | <i>Athyrium filix-femina</i> var. <i>californicum</i>     |                   |               |                 |              |
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                                 | High              | Good          | Good            | Poor         |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                                    |                   | Good          | Fair            | Poor         |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                                    |                   |               |                 |              |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                                     |                   |               |                 |              |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                                  |                   |               |                 |              |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                                 |                   |               |                 |              |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                               |                   |               |                 |              |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                                |                   | Good          | Good            | Fair         |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                              |                   | Good          | Poor            | Poor         |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                                  |                   |               |                 |              |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                                    |                   |               |                 |              |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                                 |                   |               |                 |              |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                      |                   |               |                 |              |
| BEPL        | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                               |                   |               |                 |              |
| BEOC2       | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                                | Medium            | Good          | Fair            | Poor         |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                                   |                   |               |                 |              |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>             |                   |               |                 |              |
| BICE        | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                      |                   |               |                 |              |
| BITR        | <i>Bidens tripartita</i>                                    | <i>Bidens cosmosa</i>                                     |                   |               |                 |              |
| BIFR        | <i>Bidens frondosa</i>                                      | <i>Bidens frondosa</i>                                    |                   |               |                 |              |
| BLTR        | <i>Blepharoneuron tricholepis</i>                           | <i>Blepharoneuron tricholepis</i>                         |                   |               |                 |              |
| BOCO2       | <i>Boerhavia coulteri</i>                                   | <i>Boerhaavia coulteri</i>                                |                   |               |                 |              |
| BOMU        | <i>Botrychium multifidum</i>                                | <i>Botrychium multifidum</i> subsp. <i>coulteri</i>       |                   |               |                 |              |
| BOAR        | <i>Bouteloua aristoides</i>                                 | <i>Bouteloua aristoides</i>                               |                   |               |                 |              |
| BOBA2       | <i>Bouteloua barbata</i>                                    | <i>Bouteloua barbata</i>                                  |                   |               |                 |              |
| BOCU        | <i>Bouteloua curtipendula</i>                               | <i>Bouteloua curtipendula</i>                             | High              | Good          | Good            | Good         |
| BOER4       | <i>Bouteloua eriopoda</i>                                   | <i>Bouteloua eriopoda</i>                                 |                   | Good          | Good            | Poor         |
| BOGR2       | <i>Bouteloua gracilis</i>                                   | <i>Bouteloua gracilis</i>                                 | Medium            | Good          | Good            | Poor         |
| BOHI2       | <i>Bouteloua hirsuta</i>                                    | <i>Bouteloua hirsuta</i>                                  | Low               | Good          | Good            | Poor         |
| BOSI2       | <i>Bouteloua simplex</i>                                    | <i>Bouteloua simplex</i>                                  | Very low          | Good          | Fair            | Poor         |
| BRJU        | <i>Brassica juncea</i>                                      | <i>Brassica juncea</i>                                    |                   |               |                 |              |

## GROWTH POTENTIAL CON'T

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|-------------|---------------------------------|----------------------------------|-------------------|---------------|-----------------|--------------|
| BRNI        | <i>Brassica nigra</i>           | <i>Brassica nigra</i>            |                   | Good          | Good            | Good         |
| BRBE        | <i>Brickellia betonicifolia</i> | <i>Brickellia betonicaefolia</i> |                   |               |                 |              |
| BRBR2       | <i>Brickellia brachyphylla</i>  | <i>Brickellia brachyphylla</i>   |                   |               |                 |              |
| BRCA3       | <i>Brickellia californica</i>   | <i>Brickellia californica</i>    |                   |               |                 |              |
| BRFE        | <i>Brickellia fendleri</i>      | <i>Brickellia fendleri</i>       |                   |               |                 |              |
| BRGR        | <i>Brickellia grandiflora</i>   | <i>Brickellia grandiflora</i>    |                   |               |                 |              |
| BRAN        | <i>Bromus anomalus</i>          | <i>Bromus anomalus</i>           | Medium            | Good          | Good            | Good         |
| BRCA6       | <i>Bromus catharticus</i>       | <i>Bromus catharticus</i>        |                   |               |                 |              |
| BRCI2       | <i>Bromus ciliatus</i>          | <i>Bromus ciliatus</i>           |                   | Good          | Good            | Fair         |
| BRFR2       | <i>Bromus frondosus</i>         | <i>Bromus frondosus</i>          |                   |               |                 |              |
| BRIN2       | <i>Bromus inermis</i>           | <i>Bromus inermis</i>            | High              | Good          | Good            | Fair         |
| BRJA        | <i>Bromus japonicus</i>         | <i>Bromus japonicus</i>          | Low               | Good          | Good            | Fair         |
| BRLA6       | <i>Bromus lanatipes</i>         | <i>Bromus lanatipes</i>          |                   |               |                 |              |
| BRMA4       | <i>Bromus marginatus</i>        | <i>Bromus marginatus</i>         | Medium            | Good          | Good            | Fair         |
| BRKA2       | <i>Bromus kalmii</i>            | <i>Bromus purgans</i>            |                   | Good          | Good            | Fair         |
| BRTE        | <i>Bromus tectorum</i>          | <i>Bromus tectorum</i>           | Low               | Good          | Good            | Fair         |
| BUDA        | <i>Buchloe dactyloides</i>      | <i>Buchloe dactyloides</i>       | Medium            | Good          | Fair            | Poor         |
| CAGU        | <i>Calochortus gunnisonii</i>   | <i>Calochortus gunnisonii</i>    |                   |               |                 |              |
| CANU3       | <i>Calochortus nuttallii</i>    | <i>Calochortus nuttallii</i>     |                   | Good          | Good            | Fair         |
| CAHA14      | <i>Calylophus hartwegii</i>     | <i>Calylophus hartwegii</i>      |                   |               |                 |              |
| CABU        | <i>Calypso bulbosa</i>          | <i>Calypso bulbosa</i>           |                   |               |                 |              |
| CAMI2       | <i>Camelina microcarpa</i>      | <i>Camelina microcarpa</i>       |                   |               |                 |              |
| CAPA10      | <i>Campanula parryi</i>         | <i>Campanula parryi</i>          |                   |               |                 |              |
| CARO2       | <i>Campanula rotundifolia</i>   | <i>Campanula rotundifolia</i>    | Very Low          | Good          | Good            | Fair         |
| CABU2       | <i>Capsella bursa-pastoris</i>  | <i>Capsella bursa-pastoris</i>   | Very Low          | Good          | Poor            | Poor         |
| CACO6       | <i>Cardamine cordifolia</i>     | <i>Cardamine cordifolia</i>      |                   |               |                 |              |
| CADR        | <i>Cardaria draba</i>           | <i>Cardaria draba</i>            |                   | Good          | Good            | Fair         |
| CANU4       | <i>Carduus nutans</i>           | <i>Carduus nutans</i>            |                   | Good          | Good            | Fair         |
| CAAQ        | <i>Carex aquatilis</i>          | <i>Carex aquatilis</i>           | High              | Good          | Poor            | Poor         |
| CABE3       | <i>Carex bella</i>              | <i>Carex bella</i>               |                   |               |                 |              |
| CABO2       | <i>Carex bolanderi</i>          | <i>Carex bolanderi</i>           |                   |               |                 |              |
| CABR10      | <i>Carex brevior</i>            | <i>Carex brevior</i>             |                   |               |                 |              |
| CACA11      | <i>Carex canescens</i>          | <i>Carex canescens</i>           |                   |               |                 |              |
| CADO2       | <i>Carex douglasii</i>          | <i>Carex douglasii</i>           |                   | Good          | Good            | Fair         |
| CADU6       | <i>Carex duriuscula</i>         | <i>Carex eleocharis</i>          | Low               | Good          | Good            | Fair         |
| CAMI7       | <i>Carex microptera</i>         | <i>Carex festivella</i>          | Medium            | Good          | Fair            | Poor         |
| CAFO3       | <i>Carex foenea</i>             | <i>Carex foenea</i>              |                   |               |                 |              |
| CAGE        | <i>Carex geophila</i>           | <i>Carex geophila</i>            |                   |               |                 |              |
| CAHY4       | <i>Carex hystericina</i>        | <i>Carex hystericina</i>         |                   |               |                 |              |

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|-------------|-------------------------------------------------------|-----------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| CAIN11      | <i>Carex interior</i>                                 | <i>Carex interior</i>                                     |                   |               |                 |              |
| CALA30      | <i>Carex lanuginosa</i>                               | <i>Carex lanuginosa</i>                                   | High              | Good          | Good            | Poor         |
| CANE2       | <i>Carex nebraskensis</i>                             | <i>Carex nebraskensis</i>                                 | High              | Good          | Fair            | Poor         |
| CAOC2       | <i>Carex occidentalis</i>                             | <i>Carex occidentalis</i>                                 |                   |               |                 |              |
| CAPR5       | <i>Carex praegracilis</i>                             | <i>Carex praegracilis</i>                                 |                   | Good          | Fair            | Poor         |
| CASC11      | <i>Carex scoparia</i>                                 | <i>Carex scoparia</i>                                     |                   |               |                 |              |
| CAST5       | <i>Carex stipata</i>                                  | <i>Carex stipata</i>                                      |                   |               |                 |              |
| CAXE        | <i>Carex xerantica</i>                                | <i>Carex xerantica</i>                                    |                   |               |                 |              |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>         | <i>Castilleja confusa</i>                                 |                   |               |                 |              |
| CAIN14      | <i>Castilleja integra</i>                             | <i>Castilleja integra</i>                                 | Low               | Good          | Fair            | Poor         |
| CALI4       | <i>Castilleja linariifolia</i>                        | <i>Castilleja linariaefolia</i>                           | Low               | Good          | Fair            | Fair         |
| CALI5       | <i>Castilleja lineata</i>                             | <i>Castilleja lineata</i>                                 |                   |               |                 |              |
| CAMI12      | <i>Castilleja miniata</i>                             | <i>Castilleja miniata</i>                                 | Low               | Good          | Good            | Poor         |
| CAMI13      | <i>Castilleja minor</i>                               | <i>Castilleja minor</i>                                   |                   |               |                 |              |
| CARH4       | <i>Castilleja rhexiifolia</i>                         | <i>Castilleja rhexifolia</i>                              |                   |               |                 |              |
| CEFE        | <i>Ceanothus fendleri</i>                             | <i>Ceanothus fendleri</i>                                 | Medium            | Good          | Good            | Good         |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>        | <i>Celtis reticulata</i>                                  |                   |               |                 |              |
| CEEC        | <i>Cenchrus echinatus</i>                             | <i>Cenchrus echinatus</i>                                 |                   |               |                 |              |
| CEIN4       | <i>Cenchrus incertus</i>                              | <i>Cenchrus pauciflorus</i>                               |                   |               |                 |              |
| CECA3       | <i>Centaureum calycosum</i>                           | <i>Centaureum calycosum</i>                               |                   |               |                 |              |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                                  |                   | Good          | Good            | Fair         |
| CEBR3       | <i>Cerastium brachypodium</i>                         | <i>Cerastium brachypodium</i>                             |                   |               |                 |              |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                                 |                   |               |                 |              |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>          | High              | Good          | Good            | Fair         |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>     |                   |               |                 |              |
| CHCO        | <i>Chamaesaracha conioides</i>                        | <i>Chamaesaracha conioides</i>                            |                   |               |                 |              |
| CHCO2       | <i>Chamaesaracha coronopus</i>                        | <i>Chamaesaracha coronpus</i>                             |                   |               |                 |              |
| CHFE        | <i>Cheilanthes feei</i>                               | <i>Cheilanthes feei</i>                                   |                   |               |                 |              |
| CHFE2       | <i>Cheilanthes fendleri</i>                           | <i>Cheilanthes fendleri</i>                               |                   |               |                 |              |
| CHTO2       | <i>Cheilanthes tomentosa</i>                          | <i>Cheilanthes tomentosa</i>                              |                   |               |                 |              |
| CHEA        | <i>Cheilanthes eatonii</i>                            | <i>Cheilanthes eatonii</i>                                |                   |               |                 |              |
| CHAL6       | <i>Chenopodium albescens</i>                          | <i>Chenopodium albescens</i>                              |                   |               |                 |              |
| CHAL7       | <i>Chenopodium album</i>                              | <i>Chenopodium album</i>                                  |                   | Good          | Good            | Poor         |
| CHBE4       | <i>Chenopodium berlandieri</i>                        | <i>Chenopodium berlandieri</i>                            |                   |               |                 |              |
| CHCA4       | <i>Chenopodium capitatum</i>                          | <i>Chenopodium capitatum</i>                              |                   |               |                 |              |
| CHCY        | <i>Chenopodium cycloides</i>                          | <i>Chenopodium cycloides</i>                              |                   |               |                 |              |
| CHDE        | <i>Chenopodium desiccatum</i>                         | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>      |                   |               |                 |              |
| CHPR5       | <i>Chenopodium pratericola</i>                        | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i> |                   |               |                 |              |

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|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| CHFR3       | <i>Chenopodium fremontii</i>                                                           | <i>Chenopodium fremontii</i>                                   |                   |               |                 |              |
| CHSI2       | <i>Chenopodium simplex</i>                                                             | <i>Chenopodium gigantospermum</i>                              |                   |               |                 |              |
| CHGL3       | <i>Chenopodium glaucum</i>                                                             | <i>Chenopodium glaucum</i>                                     |                   |               |                 |              |
| CHGR2       | <i>Chenopodium graveolens</i>                                                          | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>         |                   |               |                 |              |
| CHIN2       | <i>Chenopodium incanum</i>                                                             | <i>Chenopodium incanum</i>                                     |                   |               |                 |              |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                                        | <i>Chenopodium leptophyllum</i>                                | Low               | Good          | Good            | Poor         |
| CHRU        | <i>Chenopodium rubrum</i>                                                              | <i>Chenopodium rubrum</i>                                      |                   | Good          | Fair            | Poor         |
| CHWA        | <i>Chenopodium watsonii</i>                                                            | <i>Chenopodium watsonii</i>                                    |                   |               |                 |              |
| CHUM        | <i>Chimaphila umbellata</i>                                                            | <i>Chimaphila umbellata</i>                                    |                   |               |                 |              |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         |                   |               |                 |              |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      |                   |               |                 |              |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         |                   |               |                 |              |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      |                   |               |                 |              |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           |                   |               |                 |              |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             |                   |               |                 |              |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> | Medium            | Good          | Good            | Poor         |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        | Medium            | Good          | Good            | Poor         |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          |                   |               |                 |              |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    |                   |               |                 |              |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                                            | <i>Cirsium ochrocentrum</i>                                    |                   |               |                 |              |
| CIPA5       | <i>Cirsium pallidum</i>                                                                | <i>Cirsium pallidum</i>                                        |                   |               |                 |              |
| CIPA        | <i>Cirsium parryi</i>                                                                  | <i>Cirsium parryi</i>                                          |                   |               |                 |              |
| CICA10      | <i>Cirsium calcareum</i>                                                               | <i>Cirsium pulchellum</i>                                      |                   |               |                 |              |
| CIUN        | <i>Cirsium undulatum</i>                                                               | <i>Cirsium undulatum</i>                                       | Medium            | Good          | Fair            | Poor         |
| CIVU        | <i>Cirsium vulgare</i>                                                                 | <i>Cirsium vulgare</i>                                         |                   | Good          | Fair            | Poor         |
| CLDR        | <i>Clematis drummondii</i>                                                             | <i>Clematis drummondii</i>                                     |                   |               |                 |              |
| CLLI2       | <i>Clematis ligusticifolia</i>                                                         | <i>Clematis ligusticifolia</i>                                 | Medium            | Good          | Good            | Poor         |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i>                                      | <i>Clematis pseudoalpina</i>                                   |                   |               |                 |              |
| CLSE        | <i>Cleome serrulata</i>                                                                | <i>Cleome serrulata</i>                                        | Low               | Good          | Fair            | Poor         |
| CLVU        | <i>Clinopodium vulgare</i>                                                             | <i>Clinopodium vulgare</i>                                     |                   |               |                 |              |
| COLI2       | <i>Collomia linearis</i>                                                               | <i>Collomia linearis</i>                                       |                   |               |                 |              |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>                                          | <i>Comandra pallida</i>                                        |                   |               |                 |              |
| CODI4       | <i>Commelina dianthifolia</i>                                                          | <i>Commelina dianthifolia</i>                                  |                   |               |                 |              |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>                                          | <i>Conopholis mexicana</i>                                     |                   |               |                 |              |
| COAR4       | <i>Convolvulus arvensis</i>                                                            | <i>Convolvulus arvensis</i>                                    |                   | Good          | Good            | Fair         |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>                                            | <i>Convolvulus sepium</i>                                      |                   |               |                 |              |

## GROWTH POTENTIAL CON'T

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|-------------|--------------------------------------------------|-------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| COCA5       | <i>Conyza canadensis</i>                         | <i>Conyza canadensis</i>                              | Low               | Good          | Good            | Low          |
| COMA4       | <i>Corallorrhiza maculata</i>                    | <i>Corallorrhiza maculata</i>                         |                   |               |                 |              |
| COST        | <i>Corallorrhiza striata</i>                     | <i>Corallorrhiza striata</i>                          |                   |               |                 |              |
| COWR2       | <i>Cordylanthus wrightii</i>                     | <i>Cordylanthus wrightii</i>                          |                   |               |                 |              |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i> | <i>Coreopsis cardaminefolia</i>                       |                   |               |                 |              |
| COTI3       | <i>Coreopsis tinctoria</i>                       | <i>Coreopsis tinctoria</i>                            |                   |               |                 |              |
| COSA        | <i>Coriandrum sativum</i>                        | <i>Coriandrum sativum</i>                             |                   |               |                 |              |
| COSES       | <i>Comus sericea</i> ssp. <i>sericea</i>         | <i>Comus stolonifera</i>                              | Medium            | Good          | Fair            | Poor         |
| COAU2       | <i>Corydalis aurea</i>                           | <i>Corydalis aurea</i>                                | Low               | Good          | Good            | Good         |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>   | <i>Coryphantha vivipara</i>                           | Very Low          | Good          | Fair            | Poor         |
| COPA12      | <i>Cosmos parviflorus</i>                        | <i>Cosmos parviflorus</i>                             |                   |               |                 |              |
| CRER        | <i>Crataegus erythropoda</i>                     | <i>Crataegus erythropoda</i>                          |                   |               |                 |              |
| CRTE4       | <i>Croton texensis</i>                           | <i>Croton texensis</i>                                |                   |               |                 |              |
| CRFE3       | <i>Cryptantha fendleri</i>                       | <i>Cryptantha fendleri</i>                            |                   |               |                 |              |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>    | <i>Cryptantha jamesii</i>                             |                   |               |                 |              |
| CRM15       | <i>Cryptantha minima</i>                         | <i>Cryptantha minima</i>                              |                   |               |                 |              |
| CRAC3       | <i>Cryptogramma acrostichoides</i>               | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> |                   |               |                 |              |
| CUFO        | <i>Cucurbita foetidissima</i>                    | <i>Cucurbita foetidissima</i>                         |                   |               |                 |              |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i>   | <i>Cuscuta campestris</i>                             |                   |               |                 |              |
| CUUM        | <i>Cuscuta umbellata</i>                         | <i>Cuscuta umbellata</i>                              |                   |               |                 |              |
| CYBU        | <i>Cymopterus bulbosus</i>                       | <i>Cymopterus bulbosus</i>                            |                   |               |                 |              |
| CYDA        | <i>Cynodon dactylon</i>                          | <i>Cynodon dactylon</i>                               |                   |               |                 |              |
| CYEC        | <i>Cynosurus echinatus</i>                       | <i>Cynosurus echinatus</i>                            |                   |               |                 |              |
| CYSQ        | <i>Cyperus squarrosus</i>                        | <i>Cyperus aristatus</i>                              |                   |               |                 |              |
| MISE3       | <i>Mitreola sessilifolia</i>                     | <i>Cyperus esculentus</i>                             |                   |               |                 |              |
| CYFE2       | <i>Cyperus fendlerianus</i>                      | <i>Cyperus fendlerianus</i>                           |                   |               |                 |              |
| CYBI6       | <i>Cyperus bipartitus</i>                        | <i>Cyperus rivularis</i>                              |                   |               |                 |              |
| CYPU10      | <i>Cypripedium pubescens</i>                     | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    |                   |               |                 |              |
| CYFR2       | <i>Cystopteris fragilis</i>                      | <i>Cystopteris fragilis</i>                           |                   |               |                 |              |
| DAGL        | <i>Dactylis glomerata</i>                        | <i>Dactylis glomerata</i>                             | High              | Good          | Good            | Fair         |
| DABR        | <i>Dalea brachystachya</i>                       | <i>Dalea brachystachys</i>                            |                   |               |                 |              |
| DAFO        | <i>Dalea formosa</i>                             | <i>Dalea formosa</i>                                  |                   |               |                 |              |
| DALE3       | <i>Dalea leporina</i>                            | <i>Dalea leporina</i>                                 |                   |               |                 |              |
| DANA        | <i>Dalea nana</i>                                | <i>Dalea nana</i>                                     |                   |               |                 |              |
| DAPO3       | <i>Dalea polygonoides</i>                        | <i>Dalea polygonoides</i>                             |                   |               |                 |              |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>       | <i>Dalea terminalis</i>                               |                   |               |                 |              |
| DAIN        | <i>Danthonia intermedia</i>                      | <i>Danthonia intermedia</i>                           |                   | Good          | Good            | Fair         |
| DAPA2       | <i>Danthonia parryi</i>                          | <i>Danthonia parryi</i>                               | Medium            | Good          | Good            | Fair         |
| DASP2       | <i>Danthonia spicata</i>                         | <i>Danthonia spicata</i>                              |                   |               |                 |              |

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| DAWR2       | <i>Datura wrightii</i>                                          | <i>Datura meteloides</i>                                        |                   |               |                 |              |
| DEOC        | <i>Delphinium X occidentale</i>                                 | <i>Delphinium occidentale</i>                                   |                   | Good          | Good            | Fair         |
| DEWO        | <i>Delphinium wootonii</i>                                      | <i>Delphinium virescens</i> subsp. <i>wootonii</i>              |                   |               |                 |              |
| DECE        | <i>Deschampsia cespitosa</i>                                    | <i>Deschampsia caespitosa</i>                                   | Medium            | Good          | Fair            | Poor         |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>                    | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>                  |                   |               |                 |              |
| DEPI        | <i>Descurainia pinnata</i>                                      | <i>Descurainia pinnata</i>                                      |                   |               |                 |              |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>                    | <i>Descurainia richardsonii</i>                                 |                   |               |                 |              |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>                    | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>            |                   |               |                 |              |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>                   | <i>Descurainia richardsonii</i> subsp. <i>procera</i>           |                   |               |                 |              |
| DESO2       | <i>Descurainia sophia</i>                                       | <i>Descurainia sophia</i>                                       |                   |               |                 |              |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>                   | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i>           |                   |               |                 |              |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis spicata</i>                                       |                   |               |                 |              |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis stricta</i>                                       | Medium            | Good          | Fair            | Poor         |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                                  | <i>Dithyrea wislizenii</i>                                      |                   |               |                 |              |
| DOAL        | <i>Dodecatheon alpinum</i>                                      | <i>Dodecatheon alpinum</i>                                      |                   |               |                 |              |
| DOPU        | <i>Dodecatheon pulchellum</i>                                   | <i>Dodecatheon pulchellum</i>                                   |                   | Good          | Good            | Fair         |
| DRAU        | <i>Draba aurea</i>                                              | <i>Draba aurea</i> var. <i>aurea</i>                            |                   |               |                 |              |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>                  | <i>Draba helleriana</i> var. <i>helleriana</i>                  |                   |               |                 |              |
| DRRE        | <i>Draba rectifruta</i>                                         | <i>Draba rectifruta</i>                                         |                   |               |                 |              |
| DRRE2       | <i>Draba reptans</i>                                            | <i>Draba reptans</i>                                            |                   |               |                 |              |
| DRSP        | <i>Draba spectabilis</i>                                        | <i>Draba spectabilis</i>                                        |                   |               |                 |              |
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     |                   |               |                 |              |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         | Very Low          | Good          | Fair            | Poor         |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        |                   |               |                 |              |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    |                   |               |                 |              |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> |                   |               |                 |              |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   |                   |               |                 |              |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       |                   |               |                 |              |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    |                   |               |                 |              |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   | Medium            | Good          | Fair            | Poor         |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  |                   |               |                 |              |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        | Medium            | Good          | Fair            | Poor         |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           | Medium            | Good          | Good            | Fair         |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        |                   | Good          | Good            | Poor         |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        |                   | Good          | Fair            | Poor         |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                      | <i>Ephedra viridis</i> var. <i>viridis</i>                      | Low               | Good          | Good            | Fair         |
| EPAN2       | <i>Epilobium angustifolium</i>                                  | <i>Epilobium angustifolium</i>                                  | Medium            | Good          | Good            | Fair         |

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|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| EPCI        | <i>Epilobium ciliatum</i>                               | <i>Epilobium ciliatum</i>                               |                   |               |                 |              |
| EPOR2       | <i>Epilobium oregonense</i>                             | <i>Epilobium oregonense</i>                             |                   |               |                 |              |
| EPBR3       | <i>Epilobium brachycarpum</i>                           | <i>Epilobium paniculatum</i>                            |                   |               |                 |              |
| EPGI        | <i>Epipactis gigantea</i>                               | <i>Epipactis gigantea</i>                               |                   |               |                 |              |
| EQAR        | <i>Equisetum arvense</i>                                | <i>Equisetum arvense</i>                                |                   | Good          | Fair            | Poor         |
| EQHY        | <i>Equisetum hyemale</i>                                | <i>Equisetum hiemale</i>                                |                   |               |                 |              |
| EQLA        | <i>Equisetum laevigatum</i>                             | <i>Equisetum laevigatum</i>                             |                   | Good          | Fair            | Poor         |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>      | <i>Eragrostis arida</i>                                 |                   |               |                 |              |
| ERBA2       | <i>Eragrostis barrelieri</i>                            | <i>Eragrostis barrelieri</i>                            |                   |               |                 |              |
| ERCI        | <i>Eragrostis cilianensis</i>                           | <i>Eragrostis cilianensis</i>                           |                   | Good          | Fair            | Poor         |
| ERCU2       | <i>Eragrostis curvula</i>                               | <i>Eragrostis curvula</i>                               |                   |               |                 |              |
| ERHY        | <i>Eragrostis hypnoides</i>                             | <i>Eragrostis hypnoides</i>                             |                   |               |                 |              |
| ERPE        | <i>Eragrostis pectinacea</i>                            | <i>Eragrostis pectinacea</i>                            |                   |               |                 |              |
| ERTR3       | <i>Eragrostis trichodes</i>                             | <i>Eragrostis trichodes</i>                             | Medium            | Good          | Fair            | Poor         |
| ERCA4       | <i>Erigeron canus</i>                                   | <i>Erigeron canus</i>                                   |                   |               |                 |              |
| ERDI4       | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               |                   |               |                 |              |
| EREL9       | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 |                   |               |                 |              |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             |                   | Good          | Fair            | Poor         |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> |                   |               |                 |              |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus viscidus</i>                  |                   |               |                 |              |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              |                   |               |                 |              |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  |                   |               |                 |              |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          |                   |               |                 |              |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            |                   |               |                 |              |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinnus</i>         | <i>Erigeron pumilus</i> subsp. <i>concinnoideus</i>     |                   | Good          | Good            | Fair         |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              |                   |               |                 |              |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 | Low               | Good          | Good            | Fair         |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | Medium            | Good          | Good            | Fair         |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            |                   |               |                 |              |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                |                   |               |                 |              |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               |                   |               |                 |              |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                |                   |               |                 |              |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               |                   |               |                 |              |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             |                   |               |                 |              |
| ERAL4       | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 | Medium            | Good          | Good            | Fair         |
| ERAN4       | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 |                   |               |                 |              |
| ERCE2       | <i>Eriogonum cernuum</i>                                | <i>Eriogonum cernuum</i>                                |                   | Good          | Good            | Fair         |
| EREF        | <i>Eriogonum effusum</i>                                | <i>Eriogonum effusum</i>                                | Medium            | Good          | Good            | Poor         |
| ERJA        | <i>Eriogonum jamesii</i>                                | <i>Eriogonum jamesii</i>                                |                   |               |                 |              |



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|-------------|-----------------------------------------------------------|---------------------------------------------------|-------------------|---------------|-----------------|--------------|
| ERLE9       | <i>Eriogonum leptocladon</i>                              | <i>Eriogonum leptocladon</i>                      |                   |               |                 |              |
| ERPO4       | <i>Eriogonum polycladon</i>                               | <i>Eriogonum polycladon</i>                       |                   |               |                 |              |
| ERRA3       | <i>Eriogonum racemosum</i>                                | <i>Eriogonum racemosum</i>                        |                   | Good          | Good            | Fair         |
| ERCI6       | <i>Erodium cicutarium</i>                                 | <i>Erodium cicutarium</i>                         |                   | Good          | Good            | Fair         |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>           | <i>Erysimum asperum</i>                           | Low               | Good          | Good            | Fair         |
| ERCA14      | <i>Erysimum capitatum</i>                                 | <i>Erysimum capitatum</i>                         |                   |               |                 |              |
| ERIN7       | <i>Erysimum inconspicuum</i>                              | <i>Erysimum inconspicuum</i>                      |                   |               |                 |              |
| ERHE7       | <i>Erythronium hendersonii</i>                            | <i>Eupatorium herbaceum</i>                       |                   |               |                 |              |
| CHAL11      | <i>Chamaesyce albomarginata</i>                           | <i>Euphorbia albomarginata</i>                    |                   |               |                 |              |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i>                          |                   |               |                 |              |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>  |                   |               |                 |              |
| EUEX4       | <i>Euphorbia exstipulata</i>                              | <i>Euphorbia exstipulata</i>                      |                   |               |                 |              |
| CHFE3       | <i>Chamaesyce fendleri</i>                                | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    |                   |               |                 |              |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>               | <i>Euphorbia geyeri</i>                           |                   |               |                 |              |
| EULU        | <i>Euphorbia lurida</i>                                   | <i>Euphorbia lurida</i>                           |                   |               |                 |              |
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> |                   |               |                 |              |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      |                   |               |                 |              |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         |                   |               |                 |              |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          |                   |               |                 |              |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    |                   |               |                 |              |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             |                   |               |                 |              |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                          |                   |               |                 |              |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                          | High              | Good          | Good            | Fair         |
| FERUR       | <i>Fendleri rupicola</i> var. <i>rupicola</i>             | <i>Fendleri rupicola</i> var. <i>rupicola</i>     |                   |               |                 |              |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                          | High              | Good          | Good            | Fair         |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                            |                   |               |                 |              |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                          |                   |               |                 |              |
| FEOV        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                              | Low               | Good          | Good            | Fair         |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                            |                   |               |                 |              |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                           | High              | Good          | Good            | Fair         |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                     |                   |               |                 |              |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>               | <i>Fragaria americana</i>                         |                   |               |                 |              |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>         | <i>Fragaria ovalis</i>                            |                   |               |                 |              |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                        | <i>Franseria acanthicarpa</i>                     |                   |               |                 |              |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                         | <i>Franseria confertiflora</i>                    |                   |               |                 |              |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                       | <i>Gaillardia pinnatifida</i>                     |                   |               |                 |              |
| GAAP2       | <i>Galium aparine</i> L.                                  | <i>Galium aparine</i>                             |                   |               |                 |              |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>asperrimum</i>            | <i>Galium asperrimum</i>                          |                   |               |                 |              |
| GABO2       | <i>Galium boreale</i>                                     | <i>Galium boreale</i>                             | Low               | Good          | Good            | Fair         |

### GROWTH POTENTIAL CON'T

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|-------------|---------------------------------------------------------|--------------------------------------------------|-------------------|---------------|-----------------|--------------|
| GAFE        | <i>Galium fendleri</i>                                  | <i>Galium fendleri</i>                           |                   |               |                 |              |
| GAMI        | <i>Galium microphyllum</i>                              | <i>Galium microphyllum</i>                       |                   |               |                 |              |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>          | <i>Galium tinctorum</i> var. <i>subbiflorum</i>  |                   |               |                 |              |
| GACO5       | <i>Gaura coccinea</i>                                   | <i>Gaura coccinea</i>                            |                   | Good          | Good            | Fair         |
| GAPA6       | <i>Gaura parviflora</i>                                 | <i>Gaura parviflora</i>                          |                   |               |                 |              |
| GEAF        | <i>Gentiana affinis</i>                                 | <i>Gentiana affinis</i>                          |                   |               |                 |              |
| GEAF        | <i>Gentiana affinis</i>                                 | <i>Gentiana bigelovii</i>                        |                   |               |                 |              |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>           | <i>Gentiana plebeia</i>                          |                   |               |                 |              |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>           | <i>Gentiana strictiflora</i>                     |                   |               |                 |              |
| GECA3       | <i>Geranium caespitosum</i>                             | <i>Geranium caespitosum</i>                      |                   |               |                 |              |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i>       | <i>Geranium fremontii</i>                        | Medium            | Good          | Good            | Fair         |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>          | <i>Geranium fremontii</i> var. <i>parryi</i>     |                   |               |                 |              |
| GERI        | <i>Geranium richardsonii</i>                            | <i>Geranium richardsonii</i>                     | Medium            | Good          | Good            | Fair         |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>         | <i>Geum macrophyllum</i> var. <i>perincisum</i>  |                   |               |                 |              |
| GERI2       | <i>Geum rivale</i>                                      | <i>Geum rivale</i>                               |                   |               |                 |              |
| GEAL3       | <i>Geum aleppicum</i>                                   | <i>Geum strictum</i> var. <i>strictum</i>        |                   |               |                 |              |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>              | <i>Geum triflorum</i> var. <i>ciliatum</i>       |                   | Good          | Good            | Fair         |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>          | <i>Gilia flavocincta</i> subsp. <i>australis</i> |                   |               |                 |              |
| GILE3       | <i>Gilia leptomeria</i>                                 | <i>Gilia leptomeria</i>                          |                   |               |                 |              |
| GIPI        | <i>Gilia pinnatifida</i>                                | <i>Gilia pinnatifida</i>                         |                   |               |                 |              |
| GLBO        | <i>Glyceria borealis</i>                                | <i>Glyceria borealis</i>                         |                   |               |                 |              |
| GLGR        | <i>Glyceria grandis</i>                                 | <i>Glyceria grandis</i>                          |                   | Good          | Fair            | Fair         |
| GLST        | <i>Glyceria striata</i>                                 | <i>Glyceria striata</i>                          | Medium            | Good          | Fair            | Poor         |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                             | <i>Glycyrrhiza lepidota</i>                      | Medium            | Good          | Fair            | Poor         |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       |                   |               |                 |              |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       |                   |               |                 |              |
| GNEX        | <i>Gnaphalium exilifolium</i>                           | <i>Gnaphalium grayi</i>                          |                   |               |                 |              |
| PSMA11      | <i>Pseudognaphalium macounii</i>                        | <i>Gnaphalium macounii</i>                       |                   |               |                 |              |
| GNPA        | <i>Gnaphalium palustre</i>                              | <i>Gnaphalium palustre</i>                       |                   |               |                 |              |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i> | <i>Gnaphalium wrightii</i>                       |                   |               |                 |              |
| GOOB2       | <i>Goodyera oblongifolia</i>                            | <i>Goodyera oblongifolia</i>                     |                   |               |                 |              |
| GORE2       | <i>Goodyera repens</i>                                  | <i>Goodyera repens</i>                           |                   |               |                 |              |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>            | <i>Grindelia aphanactis</i>                      |                   |               |                 |              |
| GRFA        | <i>Grindelia fastigiata</i>                             | <i>Grindelia fastigiata</i>                      |                   |               |                 |              |
| GRSQ        | <i>Grindelia squarrosa</i>                              | <i>Grindelia squarrosa</i>                       | Medium            | Good          | Good            | Fair         |
| GUMI        | <i>Gutierrezia microcephala</i>                         | <i>Gutierrezia microcephala</i>                  |                   |               |                 |              |
| GUSA2       | <i>Gutierrezia sarothrae</i>                            | <i>Gutierrezia sarothrae</i>                     | Low               | Good          | Good            | Fair         |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>    | <i>Habenaria hyperborea</i>                      |                   |               |                 |              |

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| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>                            | <i>Habenaria sparsiflora</i>                              |                   |               |                 |              |
| HAFL2       | <i>Hackelia floribunda</i>                                                        | <i>Hackelia floribunda</i>                                |                   |               |                 |              |
| HABE3       | <i>Hackelia besseyi</i>                                                           | <i>Hackelia grisea</i>                                    |                   |               |                 |              |
| HAPI2       | <i>Hackelia pinetorum</i>                                                         | <i>Hackelia pinetorum</i>                                 |                   |               |                 |              |
| PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i>                                        | <i>Haplopappus croceus</i>                                |                   |               |                 |              |
| MAGR10      | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                               |                   |               |                 |              |
| MARGG       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                              |                   |               |                 |              |
| SOPA4       | <i>Solidago parryi</i>                                                            | <i>Haplopappus parryi</i>                                 |                   |               |                 |              |
| MAPIP4      | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i>    | Low               | Good          | Good            | Fair         |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                                 |                   |               |                 |              |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                       |                   |               |                 |              |
| HEOB        | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                               |                   |               |                 |              |
| HEPU12      | <i>Hedeoma pulcherrima</i>                                                        | <i>Hedeoma pulcherrima</i>                                |                   |               |                 |              |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>            |                   |               |                 |              |
| HYHO        | <i>Hymenoxys hoopesii</i>                                                         | <i>Helenium hoopesii</i>                                  |                   |               |                 |              |
| HEQU2       | <i>Helianthella quinquenervis</i>                                                 | <i>Helianthella quinquenervis</i>                         | Medium            | Good          | Good            | Poor         |
| HEAN3       | <i>Helianthus annuus</i>                                                          | <i>Helianthus annuus</i>                                  | Medium            | Good          | Good            | Fair         |
| HEAR8       | <i>Helianthus arizonensis</i>                                                     | <i>Helianthus arizonensis</i>                             |                   |               |                 |              |
| HEPE        | <i>Helianthus petiolaris</i>                                                      | <i>Helianthus petiolaris</i>                              |                   | Good          | Good            | Fair         |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboides</i>                           | <i>Helianthus rigidus</i> subsp. <i>subrhomboides</i>     | Medium            | Good          | Good            | Fair         |
| HEMA80      | <i>Heracleum maximum</i>                                                          | <i>Heracleum lanatum</i>                                  |                   |               |                 |              |
| HEPA11      | <i>Heuchera parvifolia</i>                                                        | <i>Heuchera parvifolia</i>                                |                   |               |                 |              |
| HICA4       | <i>Hieracium cameum</i>                                                           | <i>Hieracium cameum</i>                                   |                   |               |                 |              |
| HIFE        | <i>Hieracium fendleri</i>                                                         | <i>Hieracium fendleri</i>                                 |                   |               |                 |              |
| HIOD        | <i>Hierochloa odorata</i>                                                         | <i>Hierochloa odorata</i>                                 |                   |               |                 |              |
| PLJA        | <i>Pleuraphis jamesii</i>                                                         | <i>Hilaria jamesii</i>                                    | Medium            | Good          | Fair            | Poor         |
| HODU        | <i>Holodiscus dumosus</i>                                                         | <i>Holodiscus dumosus</i>                                 | Medium            | Good          | Good            | Good         |
| HOBR2       | <i>Hordeum brachyantherum</i>                                                     | <i>Hordeum brachyantherum</i>                             |                   | Good          | Good            | Fair         |
| HOJU        | <i>Hordeum jubatum</i>                                                            | <i>Hordeum jubatum</i>                                    | Medium            | Good          | Fair            | Poor         |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>                                     | <i>Humulus americanus</i>                                 |                   |               |                 |              |
| HYFE        | <i>Hydrophyllum fendleri</i>                                                      | <i>Hydrophyllum fendleri</i>                              |                   |               |                 |              |
| HYFI        | <i>Hymenopappus filifolius</i>                                                    | <i>Hymenopappus filifolius</i>                            |                   |               |                 |              |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i>                             | <i>Hymenopappus flavescens</i> var. <i>canotomentosus</i> |                   |               |                 |              |
| HYNE        | <i>Hymenopappus newberryi</i>                                                     | <i>Hymenopappus newberryi</i>                             |                   |               |                 |              |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                                                   | <i>Hymenopappus tenuifolius</i>                           |                   |               |                 |              |
| TECA2       | <i>Tetradymia canescens</i>                                                       | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>              |                   |               |                 |              |

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| TEACA       | <i>Tetaneuris acaulis</i> var. <i>arizonica</i>         | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>       |                   |               |                 |              |
| TEACN       | <i>Tetaneuris acaulis</i> var. <i>nana</i>              | <i>Hymenoxys argentea</i>                            |                   |               |                 |              |
| TEBR        | <i>Tetaneuris brandegei</i>                             | <i>Hymenoxys brandegei</i>                           |                   |               |                 |              |
| TEIV        | <i>Tetaneuris ivesiana</i>                              | <i>Hymenoxys ivesiana</i>                            |                   |               |                 |              |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>    | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i> |                   |               |                 |              |
| HYNI        | <i>Hyoscyamus niger</i>                                 | <i>Hyoscyamus niger</i>                              |                   |               |                 |              |
| HYFO4       | <i>Hypericum formosum</i>                               | <i>Hypericum formosum</i>                            |                   |               |                 |              |
| IPCO3       | <i>Ipomoea coccinea</i>                                 | <i>Ipomoea coccinea</i>                              |                   |               |                 |              |
| IPHE        | <i>Ipomoea hederacea</i>                                | <i>Ipomoea hederacea</i>                             |                   |               |                 |              |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>        | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>   | Medium            | Good          | Good            | Fair         |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>       | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>      |                   |               |                 |              |
| IPLA2       | <i>Ipomopsis laxiflora</i>                              | <i>Ipomopsis laxiflora</i>                           |                   |               |                 |              |
| IPLO2       | <i>Ipomopsis longiflora</i>                             | <i>Ipomopsis longiflora</i>                          |                   |               |                 |              |
| IPMU3       | <i>Ipomopsis multiflora</i>                             | <i>Ipomopsis multiflora</i>                          |                   |               |                 |              |
| IPPU4       | <i>Ipomopsis pumila</i>                                 | <i>Ipomopsis pumila</i>                              |                   | Good          | Good            | Fair         |
| IRMI        | <i>Iris missouriensis</i>                               | <i>Iris missouriensis</i>                            |                   |               |                 |              |
| IVAX        | <i>Iva axillaris</i>                                    | <i>Iva axillaris</i>                                 | Low               | Good          | Good            | Fair         |
| IVXA        | <i>Iva xanthifolia</i>                                  | <i>Iva xanthifolia</i>                               |                   | Good          | Good            | Poor         |
| JAAM        | <i>Jamesia americana</i>                                | <i>Jamesia americana</i>                             |                   |               |                 |              |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>             | <i>Juncus balticus</i> var. <i>montanus</i>          | Medium            | Good          | Good            | Poor         |
| JUBU        | <i>Juncus bufonius</i>                                  | <i>Juncus bufonius</i>                               |                   |               |                 |              |
| JUCO2       | <i>Juncus confusus</i>                                  | <i>Juncus confusus</i>                               |                   |               |                 |              |
| JUDR        | <i>Juncus drummondii</i>                                | <i>Juncus drummondii</i>                             |                   |               |                 |              |
| JUIN2       | <i>Juncus interior</i>                                  | <i>Juncus interior</i>                               |                   |               |                 |              |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>       | <i>Juncus longistylis</i> var. <i>longistylis</i>    |                   | Good          | Good            | Fair         |
| JUMA4       | <i>Juncus marginatus</i>                                | <i>Juncus marginatus</i>                             |                   |               |                 |              |
| JUME4       | <i>Juncus mexicanus</i>                                 | <i>Juncus mexicanus</i>                              |                   |               |                 |              |
| JUTE        | <i>Juncus tenuis</i>                                    | <i>Juncus tenuis</i>                                 |                   |               |                 |              |
| JUTO        | <i>Juncus torreyi</i>                                   | <i>Juncus torreyi</i>                                |                   |               |                 |              |
| JUXI        | <i>Juncus xiphioides</i>                                | <i>Juncus xiphioides</i>                             |                   |               |                 |              |
| JUCO6       | <i>Juniperus communis</i>                               | <i>Juniperus communis</i>                            | Low               | Good          | Good            | Fair         |
| JUDE2       | <i>Juniperus deppeana</i>                               | <i>Juniperus deppeana</i>                            |                   |               |                 |              |
| JUMO        | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                          | Medium            | Good          | Good            | Fair         |
| JUSC2       | <i>Juniperus scopulorum</i>                             | <i>Juniperus scopulorum</i>                          | Medium            | Good          | Good            | Good         |
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>                     |                   |               |                 |              |
| KOSC        | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                               | Medium            | Good          | Good            | Fair         |
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                             | Low               | Good          | Good            | Fair         |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                                |                   |               |                 |              |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                            |                   |               |                 |              |

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| LACA        | <i>Lactuca canadensis</i>                            | <i>Lactuca canadensis</i>                        |                   |               |                 |              |
| LAGR        | <i>Lactuca graminifolia</i>                          | <i>Lactuca graminifolia</i>                      |                   |               |                 |              |
| LALU        | <i>Lactuca ludoviciana</i>                           | <i>Lactuca ludoviciana</i>                       |                   |               |                 |              |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>        | <i>Lactuca pulchella</i>                         |                   |               |                 |              |
| LASE        | <i>Lactuca serriola</i>                              | <i>Lactuca serriola</i>                          | Medium            | Good          | Good            | Poor         |
| LABI        | <i>Lactuca biennis</i>                               | <i>Lactuca spicata</i>                           |                   |               |                 |              |
| LASQ        | <i>Lappula squarrosa</i>                             | <i>Lappula echinata</i>                          |                   | Good          | Good            | Fair         |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i> | <i>Lappula redowskii</i>                         | Very Low          | Good          | Good            | Fair         |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>     | <i>Lappula texana</i>                            |                   |               |                 |              |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>   | <i>Lathyrus arizonicus</i>                       |                   |               |                 |              |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>   | <i>Lathyrus leucanthus</i>                       | Low               | Good          | Good            | Fair         |
| LEOR        | <i>Leersia oryzoides</i>                             | <i>Leersia oryzoides</i>                         |                   | Good          | Fair            | Poor         |
| LEMI3       | <i>Lemna minor</i>                                   | <i>Lemna minor</i>                               |                   |               |                 |              |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>        | <i>Lepidium medium</i> var. <i>pubescens</i>     |                   |               |                 |              |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>     | <i>Lepidium medium</i> var. <i>medium</i>        |                   |               |                 |              |
| LEFE        | <i>Lesquerella fendleri</i>                          | <i>Lesquerella fendleri</i>                      |                   |               |                 |              |
| LEIN3       | <i>Lesquerella intermedia</i>                        | <i>Lesquerella intermedia</i>                    |                   |               |                 |              |
| LERE3       | <i>Lesquerella rectipes</i>                          | <i>Lesquerella rectipes</i>                      |                   |               |                 |              |
| CHER2       | <i>Chaetopappa ericoides</i>                         | <i>Leucelene ericoides</i>                       |                   | Good          | Good            | Poor         |
| LIPU        | <i>Liatris punctata</i>                              | <i>Liatris punctata</i>                          | Low               | Good          | Good            | Fair         |
| LIPO        | <i>Ligusticum porteri</i>                            | <i>Ligusticum porteri</i>                        | Medium            | Good          | Good            | Fair         |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i>     | <i>Lilium umbellatum</i>                         |                   |               |                 |              |
| LIAQ        | <i>Limosella aquatica</i>                            | <i>Limosella aquatica</i>                        |                   |               |                 |              |
| LIVU2       | <i>Linaria vulgaris</i>                              | <i>Linaria vulgaris</i>                          |                   | Good          | Good            | Poor         |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>           | <i>Linum aristatum</i> var. <i>australe</i>      |                   |               |                 |              |
| LILE3       | <i>Linum lewisii</i>                                 | <i>Linum lewisii</i>                             | Low               | Good          | Good            | Fair         |
| LINE        | <i>Linum neomexicanum</i>                            | <i>Linum neomexicana</i>                         |                   |               |                 |              |
| LIPU4       | <i>Linum puberulum</i>                               | <i>Linum puberulum</i>                           |                   |               |                 |              |
| LIRI        | <i>Linum rigidum</i>                                 | <i>Linum rigidum</i> "complex"                   |                   |               |                 |              |
| LICO7       | <i>Lithospermum cobrense</i>                         | <i>Lithospermum cobrense</i>                     |                   |               |                 |              |
| LIIN2       | <i>Lithospermum incisum</i>                          | <i>Lithospermum incisum</i>                      |                   |               |                 |              |
| LIMU3       | <i>Lithospermum multiflorum</i>                      | <i>Lithospermum multiflorum</i>                  |                   |               |                 |              |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>       | <i>Lobelia cardinalis</i> subsp. <i>graminae</i> |                   |               |                 |              |
| LOPE        | <i>Lolium perenne</i>                                | <i>Lolium perenne</i>                            |                   | Good          | Good            | Poor         |
| LOIN5       | <i>Lonicera involucrata</i>                          | <i>Lonicera involucrata</i>                      | Medium            | Good          | Good            | Fair         |
| LOWR        | <i>Lotus wrightii</i>                                | <i>Lotus wrightii</i>                            |                   |               |                 |              |
| LUAL5       | <i>Lupinus X alpestris</i>                           | <i>Lupinus alpestris</i>                         |                   |               |                 |              |
| LUAM        | <i>Lupinus ammophilus</i>                            | <i>Lupinus ammophilus</i>                        |                   |               |                 |              |
| LUAR3       | <i>Lupinus argenteus</i>                             | <i>Lupinus argenteus</i>                         | High              | Good          | Good            | Fair         |

## GROWTH POTENTIAL CON'T

| USDA Symbol | USDA NRCS PLANTS                                                         | Martin and Hutchins (1980)                        | Potential Biomass | Gentle Slopes | Moderate Slopes | Steep Slopes |
|-------------|--------------------------------------------------------------------------|---------------------------------------------------|-------------------|---------------|-----------------|--------------|
| LUBR2       | <i>Lupinus brevicaulis</i>                                               | <i>Lupinus brevicaulis</i>                        |                   |               |                 |              |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                          | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> | Medium            | Good          | Good            | Fair         |
| LUKI        | <i>Lupinus kingii</i>                                                    | <i>Lupinus kingii</i>                             |                   |               |                 |              |
| LUPU        | <i>Lupinus pusillus</i>                                                  | <i>Lupinus pusillus</i>                           | Low               | Good          | Fair            | Poor         |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>                         | <i>Lupinus rubricaulis</i>                        |                   |               |                 |              |
| LUPA4       | <i>Luzula parviflora</i>                                                 | <i>Luzula parviflora</i>                          |                   |               |                 |              |
| LYPA        | <i>Lycium pallidum</i>                                                   | <i>Lycium pallidum</i>                            |                   |               |                 |              |
| LYAM        | <i>Lycopus americanus</i>                                                | <i>Lycopus americanus</i>                         |                   |               |                 |              |
| LYPH        | <i>Lycurus phleoides</i>                                                 | <i>Lycurus phleoides</i>                          |                   |               |                 |              |
| PSAS2       | <i>Psilactis asteroides</i>                                              | <i>Machaeranthera amplifolia</i>                  |                   |               |                 |              |
| MABI        | <i>Machaeranthera bigelovii</i>                                          | <i>Machaeranthera bigelovii</i>                   | Medium            | Good          | Good            | Poor         |
| MACA2       | <i>Machaeranthera canescens</i>                                          | <i>Machaeranthera canescens</i>                   |                   | Good          | Good            | Good         |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                    |                   |               |                 |              |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>               | Low               | Good          | Fair            | Poor         |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                   |                   |               |                 |              |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                       |                   |               |                 |              |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                             |                   |               |                 |              |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                            |                   |               |                 |              |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                           |                   |               |                 |              |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                       |                   |               |                 |              |
| MAVU        | <i>Marrubium vulgare</i>                                                 | <i>Marrubium vulgare</i>                          |                   |               |                 |              |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                       | <i>Maurandya antirrhiniflora</i>                  |                   |               |                 |              |
| MELU        | <i>Medicago lupulina</i>                                                 | <i>Medicago lupulina</i>                          |                   | Good          | Fair            | Poor         |
| MESA        | <i>Medicago sativa</i>                                                   | <i>Medicago sativa</i>                            | High              | Good          | Fair            | Poor         |
| MELE2       | <i>Melampodium leucanthum</i>                                            | <i>Melampodium leucanthum</i>                     |                   |               |                 |              |
| MEPO        | <i>Melica porteri</i>                                                    | <i>Melica porteri</i>                             |                   |               |                 |              |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus albus</i>                            | Medium            | Good          | Good            | Fair         |
| MEIN2       | <i>Melilotus indicus</i>                                                 | <i>Melilotus indicus</i>                          |                   |               |                 |              |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus officinalis</i>                      | Medium            | Good          | Good            | Fair         |
| MESC        | <i>Menodora scabra</i>                                                   | <i>Menodora scabra</i>                            |                   |               |                 |              |
| MEAR4       | <i>Mentha arvensis</i>                                                   | <i>Mentha arvensis</i>                            |                   |               |                 |              |
| MEAL6       | <i>Mentzelia albicaulis</i>                                              | <i>Mentzelia albicaulis</i>                       | Medium            | Good          | Good            | Fair         |
| MELA        | <i>Mentzelia laciniata</i>                                               | <i>Mentzelia laciniata</i>                        |                   |               |                 |              |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>                                | <i>Mentzelia nuda</i> var. <i>stricta</i>         |                   |               |                 |              |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>                               | <i>Mentzelia pumila</i> var. <i>integra</i>       |                   |               |                 |              |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>                          | <i>Mentzelia pumila</i> var. <i>multiflora</i>    |                   |               |                 |              |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                       | <i>Mentzelia pumila</i> var. <i>pumila</i>        |                   |               |                 |              |

### GROWTH POTENTIAL CON'T

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|-------------|------------------------------------------------------------------------|----------------------------------------------------|-------------------|---------------|-----------------|--------------|
| MERU        | <i>Mentzelia rusbyi</i>                                                | <i>Mentzelia rusbyi</i>                            |                   |               |                 |              |
| MEBR        | <i>Mertensia brevistyla</i>                                            | <i>Mertensia brevistyla</i>                        |                   |               |                 |              |
| MEFR2       | <i>Mertensia franciscana</i>                                           | <i>Mertensia franciscana</i>                       |                   |               |                 |              |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i>                        | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   |                   |               |                 |              |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                     | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | Medium            | Good          | Good            | Fair         |
| URLI2       | <i>Uropappus linearifolius</i>                                         | <i>Microseris linearifolia</i>                     |                   |               |                 |              |
|             |                                                                        | <i>Microseris minimus</i>                          |                   |               |                 |              |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                             | <i>Microsteris gracilis</i>                        |                   |               |                 |              |
| MIFL2       | <i>Mimulus floribundus</i>                                             | <i>Mimulus floribundus</i>                         |                   |               |                 |              |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                           | <i>Mimulus glabratus</i> var. <i>fremontii</i>     |                   |               |                 |              |
| MIGU        | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                            |                   |               |                 |              |
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                          |                   |               |                 |              |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                        |                   |               |                 |              |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                      |                   |               |                 |              |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                        |                   |               |                 |              |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                        |                   |               |                 |              |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                           |                   |               |                 |              |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                        |                   |               |                 |              |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                        |                   |               |                 |              |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                    | Medium            | Good          | Poor            | Poor         |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                     |                   |               |                 |              |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                       |                   |               |                 |              |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                        | Medium            | Good          | Good            | Fair         |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                     |                   |               |                 |              |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                        |                   | Good          | Good            | Fair         |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                    |                   |               |                 |              |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                       | Low               | Good          | Good            | Poor         |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                         |                   |               |                 |              |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia torreyi</i>                        | Very Low          | Good          | Fair            | Poor         |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolfii</i>                         |                   |               |                 |              |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                       |                   |               |                 |              |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                            |                   | Good          | Fair            | Poor         |
|             |                                                                        | <i>Myosurus minimus</i>                            |                   |               |                 |              |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                             |                   |               |                 |              |
| NAHI        | <i>Nama hispidum</i>                                                   | <i>Nama hispidum</i> var. <i>hispidum</i>          |                   |               |                 |              |
| NECA2       | <i>Nepeta cataria</i>                                                  | <i>Nepeta cataria</i>                              |                   |               |                 |              |
| NIAT        | <i>Nicotiana attenuata</i>                                             | <i>Nicotiana attenuata</i>                         |                   |               |                 |              |
| NOMI        | <i>Nolina microcarpa</i>                                               | <i>Nolina microcarpa</i>                           |                   |               |                 |              |

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|-------------|-----------------------------------------------------|----------------------------------------------------|-------------------|---------------|-----------------|--------------|
| NOTHO       | <i>Notholaena</i>                                   | <i>Notholaena spp.</i>                             |                   |               |                 |              |
| NOST        | <i>Notholaena standleyi</i>                         | <i>Notholaena standleyi</i>                        |                   |               |                 |              |
| OEAL        | <i>Oenothera albicaulis</i>                         | <i>Oenothera albicaulis</i>                        |                   |               |                 |              |
| OECE2       | <i>Oenothera cespitosa</i>                          | <i>Oenothera caespitosa</i>                        | Low               | Good          | Good            | Poor         |
| OECEM3      | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i> | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>   |                   |               |                 |              |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>    | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  |                   |               |                 |              |
| OECO2       | <i>Oenothera coronopifolia</i>                      | <i>Oenothera coronopifolia</i>                     |                   | Good          | Good            | Fair         |
| OEFL        | <i>Oenothera flava</i>                              | <i>Oenothera flava</i>                             |                   |               |                 |              |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>          | <i>Oenothera hookeri</i>                           |                   |               |                 |              |
| OELA        | <i>Oenothera laciniata</i>                          | <i>Oenothera laciniata</i> var. <i>laciniata</i>   |                   |               |                 |              |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>        | <i>Oenothera pallida</i> subsp. <i>pallida</i>     |                   |               |                 |              |
| OEPR        | <i>Oenothera primiveris</i>                         | <i>Oenothera primiveris</i>                        |                   |               |                 |              |
| OPCL        | <i>Opuntia clavata</i>                              | <i>Opuntia clavata</i>                             |                   |               |                 |              |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>        | <i>Opuntia erinacea</i> var. <i>erinacea</i>       |                   |               |                 |              |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>       | <i>Opuntia erinacea</i> var. <i>utahensis</i>      |                   |               |                 |              |
| OPIM        | <i>Opuntia imbricata</i>                            | <i>Opuntia imbricata</i>                           | Very Low          | Good          | Poor            | Poor         |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>    | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   |                   |               |                 |              |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>  | <i>Opuntia phaeacantha</i> var. <i>discata</i>     |                   |               |                 |              |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>  | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> |                   |               |                 |              |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>  | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | Low               | Good          | Fair            | Poor         |
| ORFA        | <i>Orobancha fasciculata</i>                        | <i>Orobancha fasciculata</i> var. <i>lutea</i>     |                   | Good          | Fair            | Poor         |
| ORLU        | <i>Orobancha ludoviciana</i>                        | <i>Orobancha ludoviciana</i>                       |                   |               |                 |              |
| ORLUM       | <i>Orobancha ludoviciana</i> ssp. <i>multiflora</i> | <i>Orobancha multiflora</i>                        |                   |               |                 |              |
| ORLU2       | <i>Orthocarpus luteus</i>                           | <i>Orthocarpus luteus</i>                          |                   | Good          | Good            | Poor         |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                    | <i>Orthocarpus purpureo-albus</i>                  |                   |               |                 |              |
| ORAS        | <i>Oryzopsis asperifolia</i>                        | <i>Oryzopsis asperifolia</i>                       |                   |               |                 |              |
| ACHY        | <i>Achnatherum hymenoides</i>                       | <i>Oryzopsis hymenoides</i>                        | Medium            | Good          | Good            | Fair         |
| PIMI7       | <i>Piptatherum micranthum</i>                       | <i>Oryzopsis micrantha</i>                         |                   | Good          | Good            | Fair         |
| OSDE        | <i>Osmorhiza depauperata</i>                        | <i>Osmorhiza obtusa</i>                            |                   |               |                 |              |
| OXAL2       | <i>Oxalis alpina</i>                                | <i>Oxalis metcalfei</i>                            |                   |               |                 |              |
| OXVI        | <i>Oxalis violacea</i>                              | <i>Oxalis violacea</i>                             |                   |               |                 |              |
| MIHI        | <i>Mirabilis hirsuta</i>                            | <i>Oxybaphus hirsutus</i>                          |                   |               |                 |              |
| MILI3       | <i>Mirabilis linearis</i>                           | <i>Oxybaphus linearis</i> var. <i>linearis</i>     |                   |               |                 |              |
| OXFE        | <i>Oxypolis fendleri</i>                            | <i>Oxypolis fendleri</i>                           |                   |               |                 |              |
| OXLA3       | <i>Oxytropis lambertii</i>                          | <i>Oxytropis lambertii</i>                         |                   | Good          | Good            | Fair         |
| PAMY        | <i>Paxistima myrsinites</i>                         | <i>Pachystima myrsinites</i>                       |                   |               |                 |              |
| PABU        | <i>Panicum bulbosum</i>                             | <i>Panicum bulbosum</i>                            |                   |               |                 |              |
| PACA6       | <i>Panicum capillare</i>                            | <i>Panicum capillare</i> var. <i>capillare</i>     |                   |               |                 |              |
| PAHA        | <i>Panicum hallii</i>                               | <i>Panicum hallii</i>                              |                   |               |                 |              |



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|-------------|-------------------------------------------------------------|----------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                                   |                   |               |                 |              |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                                 |                   |               |                 |              |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                                   |                   |               |                 |              |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                             |                   |               |                 |              |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                              |                   |               |                 |              |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                                  | High              | Good          | Fair            | Poor         |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                                |                   |               |                 |              |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                            |                   |               |                 |              |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                               |                   |               |                 |              |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                                    |                   |               |                 |              |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                                 |                   |               |                 |              |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                         |                   |               |                 |              |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                              |                   |               |                 |              |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                                  |                   |               |                 |              |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                                 |                   |               |                 |              |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                            |                   |               |                 |              |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>          |                   |               |                 |              |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                                 |                   | Good          | Good            | Good         |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                                |                   |               |                 |              |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                                 |                   |               |                 |              |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                                  |                   |               |                 |              |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>      | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> |                   |               |                 |              |
| PEOL        | <i>Penstemon oliganthus</i>                                 | <i>Penstemon oliganthus</i>                              |                   |               |                 |              |
| PERY        | <i>Penstemon rydbergii</i>                                  | <i>Penstemon rydbergii</i>                               |                   |               |                 |              |
| PESE11      | <i>Penstemon secundiflorus</i>                              | <i>Penstemon secundiflorus</i>                           |                   |               |                 |              |
| PEVI4       | <i>Penstemon virgatus</i>                                   | <i>Penstemon virgatus</i>                                |                   |               |                 |              |
| PEWH        | <i>Penstemon whippleanus</i>                                | <i>Penstemon whippleanus</i>                             |                   | Good          | Good            | Fair         |
| PECA10      | <i>Pericome caudata</i>                                     | <i>Pericome caudata</i>                                  |                   |               |                 |              |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                    | <i>Petalostemum candidum</i>                             |                   |               |                 |              |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                  | <i>Petalostemum compactum</i>                            |                   |               |                 |              |
| DAEX2       | <i>Dalea exigua</i>                                         | <i>Petalostemum exile</i>                                |                   |               |                 |              |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                  | <i>Petalostemum purpureum</i>                            |                   |               |                 |              |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                    | <i>Petalostemum villosum</i>                             |                   |               |                 |              |
| PHCO        | <i>Phacelia coerulea</i>                                    | <i>Phacelia coerulea</i>                                 |                   |               |                 |              |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>             | <i>Phacelia corrugata</i>                                |                   |               |                 |              |
| PHHE2       | <i>Phacelia heterophylla</i>                                | <i>Phacelia heterophylla</i>                             |                   |               |                 |              |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              |                   |               |                 |              |
| PHEG        | <i>Phacelia egea</i>                                      | <i>Phacelia magellanica</i>                               |                   |               |                 |              |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       |                   |               |                 |              |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            |                   |               |                 |              |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              |                   |               |                 |              |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> |                   |               |                 |              |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     | Medium            | Good          | Good            | Fair         |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    | Medium            | Good          | Fair            | Poor         |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   |                   | Good          | Good            | Fair         |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             |                   |               |                 |              |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                |                   |               |                 |              |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           |                   |               |                 |              |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        |                   |               |                 |              |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 |                   |               |                 |              |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               | Medium            | Good          | Good            | Good         |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | High              | Good          | Good            | Good         |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | Medium            | Good          | Good            | Fair         |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | Medium            | Good          | Good            | Good         |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     | Medium            | Good          | Good            | Good         |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | High              | Good          | Good            | Fair         |
| PLAR2       | <i>Plantago argyrea</i>                                   | <i>Plantago argyrea</i>                                   |                   |               |                 |              |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     |                   |               |                 |              |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   |                   |               |                 |              |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          |                   |               |                 |              |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      |                   |               |                 |              |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      | Low               | Good          | Good            | Poor         |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    | Medium            | Good          | Good            | Good         |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       |                   |               |                 |              |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    |                   |               |                 |              |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     | Medium            | Good          | Good            | Fair         |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      |                   | Good          | Good            | Fair         |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    |                   |               |                 |              |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | Medium            | Good          | Good            | Fair         |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             |                   |               |                 |              |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | Low               | Good          | Good            | Fair         |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        |                   |               |                 |              |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                |                   | Good          | Fair            | Poor         |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             | Medium            | Good          | Fair            | Poor         |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              |                   |               |                 |              |

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| PODO4       | <i>Polygonum douglasii</i>                        | <i>Polygonum douglasii</i>                         |                   | Good          | Good            | Fair         |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>  | <i>Polygonum montanum</i>                          |                   |               |                 |              |
| POPE3       | <i>Polygonum persicaria</i>                       | <i>Polygonum persicaria</i>                        |                   | Good          | Good            | Poor         |
| PORA3       | <i>Polygonum ramosissimum</i>                     | <i>Polygonum ramosissimum</i>                      |                   | Good          | Good            | Fair         |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i> | <i>Polygonum sawatchense</i>                       |                   |               |                 |              |
| POMO5       | <i>Polypogon monspeliensis</i>                    | <i>Polypogon monspeliensis</i>                     |                   |               |                 |              |
| POAN3       | <i>Populus angustifolia</i>                       | <i>Populus angustifolia</i>                        | High              | Good          | Fair            | Poor         |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>    | <i>Populus fremontii</i> var. <i>wislizenii</i>    | High              | Good          | Poor            | Poor         |
| POTR5       | <i>Populus tremuloides</i>                        | <i>Populus tremuloides</i> var. <i>aurea</i>       | High              | Good          | Good            | Fair         |
| POOL        | <i>Portulaca oleracea</i>                         | <i>Portulaca oleracea</i>                          |                   |               |                 |              |
| ARAN7       | <i>Argentina anserina</i>                         | <i>Potentilla anserina</i>                         | Low               | Good          | Fair            | Poor         |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>  | <i>Potentilla arguta</i> subsp. <i>convallaria</i> |                   |               |                 |              |
| POCO13      | <i>Potentilla concinna</i>                        | <i>Potentilla concinna</i>                         |                   |               |                 |              |
| POCR4       | <i>Potentilla crinita</i>                         | <i>Potentilla crinita</i>                          |                   |               |                 |              |
| PEFL15      | <i>Pentaphylloides floribunda</i>                 | <i>Potentilla fruticosa</i>                        | Medium            | Good          | Fair            | Poor         |
| POHI6       | <i>Potentilla hippiana</i>                        | <i>Potentilla hippiana</i>                         |                   |               |                 |              |
| PONO3       | <i>Potentilla norvegica</i>                       | <i>Potentilla norvegica</i>                        |                   |               |                 |              |
| POPE8       | <i>Potentilla pennsylvanica</i>                   | <i>Potentilla pennsylvanica</i>                    |                   |               |                 |              |
| POPU9       | <i>Potentilla pulcherrima</i>                     | <i>Potentilla pulcherrima</i>                      |                   |               |                 |              |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>   | <i>Potentilla thurberi</i> var. <i>thurberi</i>    |                   |               |                 |              |
| PRRU        | <i>Primula rusbyi</i>                             | <i>Primula rusbyi</i>                              |                   |               |                 |              |
| PRVU        | <i>Prunella vulgaris</i>                          | <i>Prunella vulgaris</i>                           |                   |               |                 |              |
| PRAM        | <i>Prunus americana</i>                           | <i>Prunus americana</i>                            | Medium            | Good          | Good            | Fair         |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>   | <i>Prunus emarginata</i> var. <i>emarginata</i>    |                   |               |                 |              |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>  | <i>Prunus virginiana</i> var. <i>melanocarpa</i>   | High              | Good          | Good            | Fair         |
| PSMO        | <i>Pseudocymopterus montanus</i>                  | <i>Pseudocymopterus montanus</i>                   |                   |               |                 |              |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>   | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>    | Medium            | Good          | Good            | Good         |
| PSTA        | <i>Psilostrophe tagetina</i>                      | <i>Psilotrophe tagetina</i>                        |                   |               |                 |              |
| PEHYH       | <i>Pedimelum hypogaeum</i> var. <i>hypogaeum</i>  | <i>Psoralea hypogaea</i>                           |                   |               |                 |              |
| PSLA3       | <i>Psoraleidium lanceolatum</i>                   | <i>Psoralea lanceolata</i>                         | Medium            | Good          | Fair            | Fair         |
| PSTE5       | <i>Psoraleidium tenuiflorum</i>                   | <i>Psoralea tenuiflora</i>                         | Low               | Good          | Good            | Fair         |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>  |                   |               |                 |              |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>  | <i>Pteridium aquilinum</i> var. <i>pubescens</i>   |                   |               |                 |              |
| PTAN2       | <i>Pterospora andromedea</i>                      | <i>Pterospora andromedea</i>                       |                   |               |                 |              |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>    | <i>Pulsatilla ludoviciana</i>                      |                   |               |                 |              |
| PUTR2       | <i>Purshia tridentata</i>                         | <i>Purshia tridentata</i>                          | High              | Good          | Good            | Good         |
| PYAS        | <i>Pyrola asarifolia</i>                          | <i>Pyrola asarifolia</i>                           |                   |               |                 |              |
| PYCH        | <i>Pyrola chlorantha</i>                          | <i>Pyrola chlorantha</i>                           |                   |               |                 |              |
| PYEL        | <i>Pyrola elliptica</i>                           | <i>Pyrola elliptica</i>                            |                   |               |                 |              |

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| PYMI        | <i>Pyrola minor</i>                                       | <i>Pyrola minor</i>                                   |                   |               |                 |              |
| PYPI2       | <i>Pyrola picta</i>                                       | <i>Pyrola picta</i>                                   |                   |               |                 |              |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       |                   |               |                 |              |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               | High              | Good          | Good            | Good         |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 |                   |               |                 |              |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                |                   |               |                 |              |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             |                   | Good          | Good            | Good         |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               |                   |               |                 |              |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              |                   |               |                 |              |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           |                   |               |                 |              |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   |                   | Good          | Poor            | Poor         |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       |                   |               |                 |              |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> |                   |               |                 |              |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           |                   |               |                 |              |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            |                   |               |                 |              |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          |                   |               |                 |              |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   |                   |               |                 |              |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           | Low               | Good          | Fair            | Poor         |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               |                   |               |                 |              |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    | Medium            | Good          | Good            | Fair         |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i>        | <i>Rhus radicans</i>                                  |                   |               |                 |              |
| RHTR        | <i>Rhus trilobata</i>                                     | <i>Rhus trilobata</i>                                 | Medium            | Good          | Good            | Fair         |
| RICE        | <i>Ribes cereum</i>                                       | <i>Ribes cereum</i>                                   | Medium            | Good          | Good            | Fair         |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>               | <i>Ribes inebrians</i>                                |                   |               |                 |              |
| RIIN2       | <i>Ribes inerme</i>                                       | <i>Ribes inerme</i>                                   |                   | Good          | Good            | Fair         |
| RILE        | <i>Ribes leptanthum</i>                                   | <i>Ribes leptanthum</i>                               |                   |               |                 |              |
| RIMO2       | <i>Ribes montigenum</i>                                   | <i>Ribes montigenum</i>                               |                   | Good          | Good            | Fair         |
| RIPI        | <i>Ribes pinetorum</i>                                    | <i>Ribes pinetorum</i>                                |                   |               |                 |              |
| RIWO        | <i>Ribes wolfii</i>                                       | <i>Ribes wolfii</i>                                   |                   |               |                 |              |
| RONE        | <i>Robinia neomexicana</i>                                | <i>Robinia neomexicana</i>                            |                   | Good          | Good            | Fair         |
| ROIS2       | <i>Rorippa islandica</i>                                  | <i>Rorippa islandica</i>                              |                   |               |                 |              |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                       | <i>Rorippa nasturtium-aquaticum</i>                   |                   | Good          | Fair            | Poor         |
| ROTE2       | <i>Rorippa teres</i>                                      | <i>Rorippa obtusa</i>                                 |                   |               |                 |              |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>femaldiana</i>           | <i>Rorippa palustris</i> subsp. <i>glabra</i>         |                   |               |                 |              |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>              | <i>Rorippa palustris</i> subsp. <i>hispida</i>        |                   |               |                 |              |
| ROSI2       | <i>Rorippa sinuata</i>                                    | <i>Rorippa sinuata</i>                                |                   |               |                 |              |
| ROSY        | <i>Rorippa sylvestris</i>                                 | <i>Rorippa sylvestris</i>                             |                   |               |                 |              |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>              | <i>Rorippa truncata</i>                               |                   |               |                 |              |
| RONU        | <i>Rosa nutkana</i>                                       | <i>Rosa nutkana</i>                                   |                   |               |                 |              |

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|-------------|--------------------------------------------------------|----------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>arizonica</i>                | Medium            | Good          | Good            | Fair         |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>fendleri</i>                 |                   |               |                 |              |
| RUPA        | <i>Rubus parviflorus</i>                               | <i>Rubus parviflorus</i>                                 | Medium            | Good          | Good            | Fair         |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>              | <i>Rubus strigosus</i> var. <i>arizonicus</i>            |                   |               |                 |              |
| RUHI2       | <i>Rudbeckia hirta</i>                                 | <i>Rudbeckia hirta</i>                                   |                   |               |                 |              |
| RULA3       | <i>Rudbeckia laciniata</i>                             | <i>Rudbeckia laciniata</i>                               | Medium            | Good          | Good            | Poor         |
| RUAC3       | <i>Rumex acetosella</i>                                | <i>Rumex acetosella</i>                                  |                   | Good          | Fair            | Poor         |
| RUCR        | <i>Rumex crispus</i>                                   | <i>Rumex crispus</i>                                     | Medium            | Good          | Fair            | Poor         |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex mexicanus</i>                                   |                   |               |                 |              |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                |                   |               |                 |              |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   |                   |               |                 |              |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             |                   |               |                 |              |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    | Medium            | Good          | Poor            | Poor         |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     |                   |               |                 |              |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      | Medium            | Good          | Fair            | Poor         |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    |                   |               |                 |              |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 | Medium            | Good          | Good            | Fair         |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  |                   |               |                 |              |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    |                   |               |                 |              |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  |                   |               |                 |              |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              |                   |               |                 |              |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |                   |               |                 |              |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                |                   |               |                 |              |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             |                   |               |                 |              |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           | Medium            | Good          | Good            | Fair         |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> |                   |               |                 |              |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              |                   |               |                 |              |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         |                   | Good          | Fair            | Poor         |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           |                   |               |                 |              |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           |                   |               |                 |              |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              |                   |               |                 |              |
| SECO        | <i>Sedum cockerellii</i>                               | <i>Sedum cockerellii</i>                                 |                   |               |                 |              |
| SEAR3       | <i>Senecio arizonicus</i>                              | <i>Senecio arizonicus</i>                                |                   |               |                 |              |
| SEAT        | <i>Senecio atratus</i>                                 | <i>Senecio atratus</i>                                   |                   |               |                 |              |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>         | <i>Senecio bigelovii</i> var. <i>bigelovii</i>           |                   |               |                 |              |
| SECR        | <i>Senecio crassulus</i>                               | <i>Senecio crassulus</i>                                 |                   | Good          | Good            | Fair         |
| SECY        | <i>Senecio cymbalarioides</i>                          | <i>Senecio cymbalarioides</i>                            |                   |               |                 |              |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>         | <i>Senecio douglasii</i> var. <i>longilobus</i>          |                   |               |                 |              |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougalii</i>     | <i>Senecio eremophilus</i> var. <i>macdougalii</i>       |                   |               |                 |              |

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| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>                             |                   |               |                 |              |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>                               |                   |               |                 |              |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                         |                   |               |                 |              |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                           |                   |               |                 |              |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>                           |                   |               |                 |              |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>                            |                   |               |                 |              |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>                           |                   |               |                 |              |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>                            |                   |               |                 |              |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>                           |                   | Good          | Good            | Fair         |
| SEWE2       | <i>Senecio wernerifolius</i>                          | <i>Senecio werneriaefolius</i>                        |                   |               |                 |              |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                               |                   |               |                 |              |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                             |                   |               |                 |              |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                              |                   |               |                 |              |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                           |                   |               |                 |              |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                                |                   | Good          | Fair            | Poor         |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                               |                   |               |                 |              |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                              |                   |               |                 |              |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                              |                   |               |                 |              |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                                |                   |               |                 |              |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                          |                   | Good          | Good            | Fair         |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                               |                   |               |                 |              |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                          |                   |               |                 |              |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                          |                   |               |                 |              |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>                          |                   |               |                 |              |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystrix</i>                               | Medium            | Good          | Good            | Poor         |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>    | <i>Smilacina racemosa</i>                             |                   | Good          | Fair            | Poor         |
| MAST4       | <i>Maianthemum stellatum</i>                          | <i>Smilacina stellata</i>                             | Low               | Good          | Good            | Fair         |
| SOAM        | <i>Solanum americanum</i>                             | <i>Solanum americanum</i>                             |                   |               |                 |              |
| SODO        | <i>Solanum douglasii</i>                              | <i>Solanum douglasii</i>                              |                   |               |                 |              |
| SOEL        | <i>Solanum elaeagnifolium</i>                         | <i>Solanum elaeagnifolium</i>                         |                   |               |                 |              |
| SOJA        | <i>Solanum jamesii</i>                                | <i>Solanum jamesii</i>                                |                   |               |                 |              |
| SOPT3       | <i>Solanum ptychanthum</i>                            | <i>Solanum nigrum</i>                                 |                   |               |                 |              |
| SORO        | <i>Solanum rostratum</i>                              | <i>Solanum rostratum</i>                              |                   | Good          | Good            | Poor         |
| SOSA        | <i>Solanum sarrachoides</i>                           | <i>Solanum sarachoides</i>                            |                   |               |                 |              |
| SOTR        | <i>Solanum triflorum</i>                              | <i>Solanum triflorum</i>                              |                   |               |                 |              |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>         | <i>Solidago altissima</i>                             |                   |               |                 |              |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>     | <i>Solidago canadensis</i> var. <i>canadensis</i>     | Low               | Good          | Good            | Poor         |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> |                   |               |                 |              |
| SOMO        | <i>Solidago mollis</i>                                | <i>Solidago mollis</i>                                |                   | Good          | Good            | Poor         |

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| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          |                   |               |                 |              |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          |                   | Good          | Good            | Fair         |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               |                   |               |                 |              |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            |                   |               |                 |              |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           |                   |               |                 |              |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    |                   |               |                 |              |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         |                   |               |                 |              |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  |                   |               |                 |              |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              |                   |               |                 |              |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            |                   |               |                 |              |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             | High              | Good          | Poor            | Poor         |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             |                   |               |                 |              |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> |                   |               |                 |              |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         | Medium            | Good          | Fair            | Poor         |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      |                   |               |                 |              |
| SPIN2       | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             |                   |               |                 |              |
| SPIN3       | <i>Sphenopholis intermedia</i>                                  | <i>Sphenopholis intermedia</i>                        |                   |               |                 |              |
| SPAI        | <i>Sporobolus airoides</i>                                      | <i>Sporobolus airoides</i>                            | High              | Good          | Fair            | Poor         |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i>             | <i>Sporobolus asper</i>                               |                   |               |                 |              |
| SPCO4       | <i>Sporobolus contractus</i>                                    | <i>Sporobolus contractus</i>                          |                   | Good          | Good            | Fair         |
| SPCR        | <i>Sporobolus cryptandrus</i>                                   | <i>Sporobolus cryptandrus</i>                         | Medium            | Good          | Good            | Poor         |
| SPNE        | <i>Sporobolus nealleyi</i>                                      | <i>Sporobolus nealleyi</i>                            |                   |               |                 |              |
| SPT5        | <i>Sporobolus texanus</i>                                       | <i>Sporobolus texanus</i>                             |                   |               |                 |              |
| STPA        | <i>Stachys palustris</i>                                        | <i>Stachys palustris</i>                              |                   |               |                 |              |
| STPI        | <i>Stanleya pinnata</i>                                         | <i>Stanleya pinnata</i>                               | Low               | Good          | Good            | Fair         |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                                | <i>Stellaria jamesiana</i>                            | Low               | Good          | Fair            | Poor         |
| STLO        | <i>Stellaria longifolia</i>                                     | <i>Stellaria longifolia</i>                           |                   |               |                 |              |
| STLO2       | <i>Stellaria longipes</i>                                       | <i>Stellaria longipes</i>                             |                   |               |                 |              |
| STPA4       | <i>Stephanomeria pauciflora</i>                                 | <i>Stephanomeria pauciflora</i>                       |                   |               |                 |              |
| STTE2       | <i>Stephanomeria tenuifolia</i>                                 | <i>Stephanomeria tenuifolia</i>                       |                   |               |                 |              |
| ACNE8       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>                   | <i>Stipa columbiana</i>                               | Medium            | Good          | Good            | Fair         |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>                   | <i>Stipa comata</i>                                   | Medium            | Good          | Good            | Fair         |
| ACEM4       | <i>Achnatherum eminens</i>                                      | <i>Stipa eminens</i>                                  |                   |               |                 |              |
| ACLE9       | <i>Achnatherum lettermanii</i>                                  | <i>Stipa lettermanii</i>                              | Low               | Good          | Good            | Fair         |
| HENE5       | <i>Hesperostipa neomexicana</i>                                 | <i>Stipa neomexicana</i>                              |                   |               |                 |              |
| ACRO7       | <i>Achnatherum robustum</i>                                     | <i>Stipa robusta</i>                                  |                   |               |                 |              |
| STCO6       | <i>Streptanthus cordatus</i>                                    | <i>Streptanthus cordatus</i>                          |                   |               |                 |              |
| STAM2       | <i>Streptopus amplexifolius</i>                                 | <i>Streptopus amplexifolius</i>                       |                   |               |                 |              |
| FRSP        | <i>Frasera speciosa</i>                                         | <i>Swertia radiata</i>                                |                   |               |                 |              |

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| SYOC        | <i>Symphoricarpos occidentalis</i>                          | <i>Symphoricarpos occidentalis</i>                         | Medium            | Good          | Good            | Fair         |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                            | <i>Symphoricarpos oreophilus</i>                           | Medium            | Good          | Good            | Fair         |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                           | <i>Symphoricarpos rotundifolius</i>                        |                   |               |                 |              |
| TAPA3       | <i>Talinum parviflorum</i>                                  | <i>Talinum parviflorum</i>                                 |                   |               |                 |              |
| TAGA        | <i>Tamarix gallica</i>                                      | <i>Tamarix gallica</i>                                     |                   |               |                 |              |
| TACH2       | <i>Tamarix chinensis</i>                                    | <i>Tamarix pentandra</i>                                   | Medium            | Good          | Fair            | Poor         |
| TALA2       | <i>Taraxacum laevigatum</i>                                 | <i>Taraxacum laevigatum</i>                                |                   |               |                 |              |
| TAOF        | <i>Taraxacum officinale</i>                                 | <i>Taraxacum officinale</i>                                | Medium            | Good          | Fair            | Poor         |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i>                                | Medium            | Good          | Good            | Fair         |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i> var. <i>inermis</i>            |                   |               |                 |              |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>             | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | Medium            | Good          | Good            | Fair         |
| THFI1       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      |                   |               |                 |              |
| THME        | <i>Thelesperma megapotamicum</i>                            | <i>Thelesperma megapotamicum</i>                           |                   |               |                 |              |
| THFI1       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>        | <i>Thelesperma trifidum</i>                                |                   |               |                 |              |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i>  | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> |                   |               |                 |              |
| THWR        | <i>Thelypodium wrightii</i>                                 | <i>Thelypodium wrightii</i>                                |                   |               |                 |              |
| THMO6       | <i>Thermopsis montana</i>                                   | <i>Thermopsis montanum</i>                                 |                   |               |                 |              |
| THDI4       | <i>Thermopsis divaricarpa</i>                               | <i>Thermopsis pinetorum</i>                                |                   |               |                 |              |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>                | <i>Thlaspi alpestre</i>                                    |                   |               |                 |              |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>          | <i>Torreyochloa pauciflora</i>                             |                   |               |                 |              |
| TOAN        | <i>Townsendia annua</i>                                     | <i>Townsendia annua</i>                                    |                   |               |                 |              |
| TOEX        | <i>Townsendia eximia</i>                                    | <i>Townsendia eximia</i>                                   |                   |               |                 |              |
| TOFO        | <i>Townsendia formosa</i>                                   | <i>Townsendia formosa</i>                                  |                   |               |                 |              |
| TOIN        | <i>Townsendia incana</i>                                    | <i>Townsendia incana</i>                                   |                   |               |                 |              |
| TOEX2       | <i>Townsendia exscapa</i>                                   | <i>Townsendia escapa</i>                                   |                   |               |                 |              |
| TRNE        | <i>Tragia nepetifolia</i>                                   | <i>Tragia nepetaefolia</i>                                 |                   |               |                 |              |
| TRDU        | <i>Tragopogon dubius</i>                                    | <i>Tragopogon dubius</i>                                   |                   | Good          | Fair            | Poor         |
| TRPR        | <i>Tragopogon pratensis</i>                                 | <i>Tragopogon pratensis</i>                                |                   |               |                 |              |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                               |                   |               |                 |              |
| TRTE        | <i>Tribulus terrestris</i>                                  | <i>Tribulus terrestris</i>                                 |                   |               |                 |              |
| ERPU8       | <i>Erioneuron pulchellum</i>                                | <i>Tridens pulchellus</i>                                  |                   |               |                 |              |
| TRDA2       | <i>Trifolium dasyphyllum</i>                                | <i>Trifolium dasyphyllum</i>                               | Low               | Good          | Good            | Good         |
| TRHY        | <i>Trifolium hybridum</i>                                   | <i>Trifolium hybridum</i>                                  | Medium            | Good          | Good            | Poor         |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>             | <i>Trifolium lacerum</i>                                   |                   |               |                 |              |
| TRPR2       | <i>Trifolium pratense</i>                                   | <i>Trifolium pratense</i>                                  | High              | Good          | Fair            | Poor         |
| TRCA5       | <i>Trifolium campestre</i>                                  | <i>Trifolium procumbens</i>                                |                   |               |                 |              |
| TRRE3       | <i>Trifolium repens</i>                                     | <i>Trifolium repens</i>                                    | Medium            | Good          | Good            | Poor         |
| TRPE4       | <i>Triodanis perfoliata</i>                                 | <i>Triodanis perfoliata</i>                                |                   |               |                 |              |
| TRMO5       | <i>Trisetum montanum</i>                                    | <i>Trisetum montanum</i>                                   |                   |               |                 |              |



# GROWTH POTENTIAL CON'T

| USDA Symbol | USDA NRCS PLANTS                                           | Martin and Hutchins (1980)                           | Potential Biomass | Gentle Slopes | Moderate Slopes | Steep Slopes |
|-------------|------------------------------------------------------------|------------------------------------------------------|-------------------|---------------|-----------------|--------------|
| TRSP2       | <i>Trisetum spicatum</i>                                   | <i>Trisetum spicatum</i>                             | Medium            | Good          | Good            | Fair         |
| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                               | High              | Good          | Poor            | Poor         |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         |                   | Good          | Fair            | Poor         |
| URGR        | <i>Urtica gracilenta</i>                                   | <i>Urtica gracilenta</i>                             |                   |               |                 |              |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               |                   |               |                 |              |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           | Low               | Good          | Good            | Fair         |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           |                   |               |                 |              |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    |                   |               |                 |              |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         |                   | Good          | Good            | Fair         |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             | Medium            | Good          | Fair            | Fair         |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         |                   |               |                 |              |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             |                   |               |                 |              |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             |                   |               |                 |              |
| VEMA        | <i>Verbena macdougalii</i>                                 | <i>Verbena macdougalii</i>                           |                   |               |                 |              |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              |                   |               |                 |              |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> |                   |               |                 |              |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            |                   |               |                 |              |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             |                   |               |                 |              |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     |                   |               |                 |              |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        |                   |               |                 |              |
| VEWO2       | <i>Veronica wormskjoldii</i>                               | <i>Veronica wormskjoldii</i>                         |                   |               |                 |              |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              |                   |               |                 |              |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>               | <i>Vicia americana</i> var. <i>americana</i>         | Low               | Good          | Good            | Poor         |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>linearis</i>          |                   |               |                 |              |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>             |                   |               |                 |              |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>           | <i>Vicia exigua</i>                                  |                   |               |                 |              |
| VILE3       | <i>Vicia leucophaea</i>                                    | <i>Vicia leucophaea</i>                              |                   |               |                 |              |
| VICO        | <i>Viguiera cordifolia</i>                                 | <i>Viguiera cordifolia</i>                           |                   |               |                 |              |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i>        | <i>Viguiera multiflora</i>                           |                   |               |                 |              |
| VIAD        | <i>Viola adunca</i>                                        | <i>Viola adunca</i>                                  |                   | Good          | Fair            | Poor         |
| VICA4       | <i>Viola canadensis</i>                                    | <i>Viola canadensis</i>                              |                   |               |                 |              |
| VISO        | <i>Viola sororia</i>                                       | <i>Viola nephrophylla</i>                            |                   |               |                 |              |
| VIPE2       | <i>Viola pedatifida</i>                                    | <i>Viola pedatifida</i>                              |                   |               |                 |              |
| VIAR2       | <i>Vitis arizonica</i>                                     | <i>Vitis arizonica</i> var. <i>arizonica</i>         |                   | Good          | Good            | Poor         |
| VIVU        | <i>Vitis vulpina</i>                                       | <i>Vitis vulpina</i>                                 |                   |               |                 |              |
|             |                                                            | <i>Woodsia mexicana</i>                              |                   |               |                 |              |
| WOOR        | <i>Woodsia oregana</i>                                     | <i>Woodsia oregana</i>                               |                   |               |                 |              |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i>           | <i>Xanthium strumarium</i> var. <i>canadense</i>     |                   |               | Fair            | Fair         |
| YUAN2       | <i>Yucca angustissima</i>                                  | <i>Yucca angustissima</i>                            |                   |               |                 |              |

### GROWTH POTENTIAL CON'T

| USDA Symbol | USDA NRCS PLANTS          | Martin and Hutchins (1980) | Potential Biomass | Gentle Slopes | Moderate Slopes | Steep Slopes |
|-------------|---------------------------|----------------------------|-------------------|---------------|-----------------|--------------|
| YUBA        | <i>Yucca baccata</i>      | <i>Yucca baccata</i>       |                   | Good          | Good            | Poor         |
| YUGL        | <i>Yucca glauca</i>       | <i>Yucca glauca</i>        | Medium            | Good          | Good            | Fair         |
| ZIGR        | <i>Zinnia grandiflora</i> | <i>Zinnia grandiflora</i>  |                   |               |                 |              |
| ZIEL2       | <i>Zygadenus elegans</i>  | <i>Zygadenus elegans</i>   |                   |               |                 |              |

**Key for heading acronyms and abbreviations:**

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).



## REVEGETATION



Mountain Mahogany

## REVEGETATION

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Erosion Control | Establishment Requirements | Short-term Revegetation | Long-term Revegetation |
|--------------|------------------------------------------------------|-------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | High            | Medium                     | Low                     | High                   |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | High            | Medium                     | Low                     | High                   |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    | Medium          |                            |                         |                        |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        | Medium          |                            |                         |                        |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> |                 |                            |                         |                        |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     | Medium          |                            |                         |                        |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    |                 |                            |                         |                        |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      |                 |                            |                         |                        |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   |                 |                            |                         |                        |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       |                 |                            |                         |                        |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      |                 |                            |                         |                        |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       | Low             |                            |                         |                        |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |                 |                            |                         |                        |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    |                 |                            |                         |                        |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        |                 |                            |                         |                        |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   | High            | Medium                     | Medium                  | High                   |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     |                 | Medium                     | Medium                  | High                   |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |                 |                            |                         |                        |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   |                 |                            |                         |                        |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         |                 |                            |                         |                        |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        | High            | Medium                     | Medium                  | High                   |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    |                 |                            |                         |                        |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   |                 |                            |                         |                        |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            |                 |                            |                         |                        |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         | Medium          |                            |                         |                        |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      |                 |                            |                         |                        |
| AGPE         | <i>Agrostis perennans</i>                            | <i>Agrostis perennans</i>                       |                 |                            |                         |                        |
| AGSC5        | <i>Agrostis scabra</i>                               | <i>Agrostis scabra</i>                          |                 |                            |                         |                        |
| POVI9        | <i>Polypogon viridis</i>                             | <i>Agrostis semiverticillata</i>                |                 |                            |                         |                        |
| AGST2        | <i>Agrostis stolonifera</i>                          | <i>Agrostis stolonifera</i>                     | High            | Medium                     | Medium                  | High                   |
| AIAL         | <i>Ailanthus altissima</i>                           | <i>Ailanthus altissima</i>                      |                 |                            |                         |                        |
| ALCEO        | <i>Allium cernuum</i> var. <i>obtusum</i>            | <i>Allium cernuum</i> var. <i>obtusum</i>       |                 |                            |                         |                        |
| ALGE         | <i>Allium geyeri</i>                                 | <i>Allium geyeri</i>                            |                 |                            |                         |                        |
| ALMA4        | <i>Allium macropetalum</i>                           | <i>Allium macropetalum</i>                      |                 |                            |                         |                        |
| ALTE         | <i>Allium textile</i>                                | <i>Allium textile</i>                           |                 |                            |                         |                        |
| ALOB2        | <i>Alnus oblongifolia</i>                            | <i>Alnus oblongifolia</i>                       |                 |                            |                         |                        |
| ALINT        | <i>Alnus incana</i> ssp. <i>tenuifolia</i>           | <i>Alnus tenuifolia</i>                         | Medium          |                            |                         |                        |
| ALAE         | <i>Alopecurus aequalis</i>                           | <i>Alopecurus aequalis</i>                      |                 |                            |                         |                        |

\* A key for heading acronyms and abbreviations is on the last page of this table.



## REVEGETATION CON'T

| USDA Symbol      | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                    | Erosion Control | Establishment Requirements | Short-term Revegetation | Long-term Revegetation |
|------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| ALRO3            | <i>Alcea rosea</i>                                                                     | <i>Althaea rosea</i>                                          |                 |                            |                         |                        |
| AMAL             | <i>Amaranthus albus</i>                                                                | <i>Amaranthus albus</i>                                       |                 |                            |                         |                        |
| AMAL; AMBL       | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>                                  |                 |                            |                         |                        |
| AMHY             | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                                    |                 |                            |                         |                        |
| AMHY2            | <i>Amaranthus hypochondriacus</i> L.                                                   | <i>Amaranthus leucocarpus</i>                                 |                 |                            |                         |                        |
| AMPA             | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                                     |                 |                            |                         |                        |
| AMPO2            | <i>Amaranthus powellii</i> S. Wats.                                                    | <i>Amaranthus powellii</i>                                    |                 |                            |                         |                        |
| AMRE             | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>                                 |                 |                            |                         |                        |
| AMAR; AMBI; AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                                     |                 |                            |                         |                        |
| AMAR2            | <i>Ambrosia artemisiifolia</i>                                                         | <i>Ambrosia artemisiifolia</i>                                |                 |                            |                         |                        |
| AMPS             | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>                                  | Medium          |                            |                         |                        |
| AMUTU            | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier bakeri</i>                                     |                 |                            |                         |                        |
| AMUTU            | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier oreophila</i>                                  |                 |                            |                         |                        |
| AMPU5            | <i>Amelanchier pumila</i>                                                              | <i>Amelanchier polycarpa</i>                                  |                 |                            |                         |                        |
| AMUT             | <i>Amelanchier utahensis</i>                                                           | <i>Amelanchier utahensis</i>                                  |                 |                            |                         |                        |
| AMCA6            | <i>Amorpha canescens</i>                                                               | <i>Amorpha canescens</i>                                      |                 |                            |                         |                        |
| AMFR             | <i>Amorpha fruticosa</i>                                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i>             |                 |                            |                         |                        |
| AMNA             | <i>Amorpha nana</i>                                                                    | <i>Amorpha nana</i>                                           |                 |                            |                         |                        |
| ANAR             | <i>Anagallis arvensis</i>                                                              | <i>Anagallis arvensis</i>                                     |                 |                            |                         |                        |
| ANMA             | <i>Anaphalis margaritacea</i>                                                          | <i>Anaphalis margaritacea</i>                                 | Medium          |                            |                         |                        |
| BOBAB            | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>                                  | <i>Andropogon barbinodis</i>                                  |                 |                            |                         |                        |
| ANGE             | <i>Andropogon gerardii</i>                                                             | <i>Andropogon gerardii</i>                                    | High            | Medium                     | Low                     | High                   |
| ANHA             | <i>Andropogon hallii</i>                                                               | <i>Andropogon hallii</i>                                      | High            | Medium                     | Low                     | High                   |
| BOSA             | <i>Bothriochloa saccharoides</i>                                                       | <i>Andropogon saccharoides</i>                                |                 |                            |                         |                        |
| SCSCS2           | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>                                   | <i>Andropogon scoparius</i>                                   | Medium          | Medium                     | Low                     | High                   |
| BOSP3            | <i>Bothriochloa springfieldii</i>                                                      | <i>Andropogon springfieldii</i>                               |                 |                            |                         |                        |
| BOWR2            | <i>Bothriochloa wrightii</i>                                                           | <i>Andropogon wrightii</i>                                    |                 |                            |                         |                        |
| ANSES4           | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>                                | <i>Androsace septentrionalis</i> var. <i>subulifera</i>       |                 |                            |                         |                        |
| ANCY             | <i>Anemone cylindrica</i>                                                              | <i>Anemone cylindrica</i>                                     |                 |                            |                         |                        |
| ANPI2            | <i>Angelica pinnata</i>                                                                | <i>Angelica pinnata</i>                                       |                 |                            |                         |                        |
| ANCR2            | <i>Anoda cristata</i>                                                                  | <i>Anoda cristata</i> var. <i>digitata</i>                    |                 |                            |                         |                        |
| ANMA5            | <i>Antennaria marginata</i>                                                            | <i>Antennaria marginata</i>                                   |                 |                            |                         |                        |
| ANPA4            | <i>Antennaria parvifolia</i>                                                           | <i>Antennaria parvifolia</i>                                  |                 |                            |                         |                        |
| ANRO2            | <i>Antennaria rosea</i>                                                                | <i>Antennaria rosea</i>                                       | Medium          |                            |                         |                        |
| ANRO3            | <i>Antennaria rosulata</i>                                                             | <i>Antennaria rosulata</i>                                    |                 |                            |                         |                        |
| APRAH            | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>                                  | <i>Aphanostephus arizonicus</i>                               |                 |                            |                         |                        |
| APANA            | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i>                          | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> |                 |                            |                         |                        |

# REVEGETATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                              | Erosion Control | Establishment Requirements | Short-term Revegetation | Long-term Revegetation |
|-------------|-------------------------------------------------------|---------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| APCA        | <i>Apocynum cannabinum</i>                            | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>      | Medium          |                            |                         |                        |
| APFL        | <i>Apocynum X floribundum</i>                         | <i>Apocynum medium</i> var. <i>A949floribundum</i>      |                 |                            |                         |                        |
| AQCO        | <i>Aquilegia coerulea</i>                             | <i>Aquilegia caerulea</i>                               |                 |                            |                         |                        |
| AQCH        | <i>Aquilegia chrysantha</i>                           | <i>Aquilegia chrysantha</i>                             |                 |                            |                         |                        |
| AQEL        | <i>Aquilegia elegantula</i>                           | <i>Aquilegia elegantula</i>                             |                 |                            |                         |                        |
| AQTR        | <i>Aquilegia tritemata</i>                            | <i>Aquilegia tritemata</i>                              |                 |                            |                         |                        |
| ARDI2       | <i>Arabis X divaricarpa</i>                           | <i>Arabis divaricarpa</i>                               |                 |                            |                         |                        |
| ARDR        | <i>Arabis drummondii</i>                              | <i>Arabis drummondii</i>                                | Low             |                            |                         |                        |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>           | <i>Arabis fendleri</i> var. <i>fendleri</i>             |                 |                            |                         |                        |
| ARGL        | <i>Arabis glabra</i>                                  | <i>Arabis glabra</i>                                    |                 |                            |                         |                        |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>          | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>            |                 |                            |                         |                        |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>      | <i>Arabis holboellii</i> var. <i>retrofracta</i>        |                 |                            |                         |                        |
| ARPE2       | <i>Arabis perennans</i>                               | <i>Arabis perennans</i>                                 |                 |                            |                         |                        |
| ARRA        | <i>Aralia racemosa</i>                                | <i>Aralia racemosa</i>                                  |                 |                            |                         |                        |
| ARDI3       | <i>Arceuthobium divaricatum</i>                       | <i>Arceuthobium divaricatum</i>                         |                 |                            |                         |                        |
| ARDO        | <i>Arceuthobium douglasii</i>                         | <i>Arceuthobium douglasii</i>                           |                 |                            |                         |                        |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i> | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodum</i> |                 |                            |                         |                        |
| ARPU5       | <i>Arctostaphylos pungens</i>                         | <i>Arctostaphylos pungens</i>                           |                 |                            |                         |                        |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                        | <i>Arctostaphylos uva-ursi</i>                          | Medium          |                            |                         |                        |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>         | <i>Arenaria confusa</i>                                 |                 |                            |                         |                        |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>         | <i>Arenaria fendleri</i> var. <i>brevifolia</i>         |                 |                            |                         |                        |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>       | <i>Arenaria fendleri</i> var. <i>fendleri</i>           | Medium          |                            |                         |                        |
| MOMA3       | <i>Moehringia macrophylla</i>                         | <i>Arenaria macrophylla</i>                             |                 |                            |                         |                        |
| ARAD        | <i>Aristida adscensionis</i>                          | <i>Aristida adscensionis</i>                            |                 |                            |                         |                        |
| ARAR6       | <i>Aristida arizonica</i>                             | <i>Aristida arizonica</i>                               |                 |                            |                         |                        |
| ARHA3       | <i>Aristida havardii</i>                              | <i>Aristida barbata</i>                                 |                 |                            |                         |                        |
| ARDI5       | <i>Aristida divaricata</i>                            | <i>Aristida divaricata</i>                              |                 |                            |                         |                        |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>      | <i>Aristida fendleriana</i>                             |                 |                            |                         |                        |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>        | <i>Aristida longiseta</i>                               | Medium          |                            |                         |                        |
| ARPU9       | <i>Aristida purpurea</i>                              | <i>Aristida purpurea</i>                                |                 |                            |                         |                        |
| ARBI3       | <i>Artemisia bigelovii</i>                            | <i>Artemisia bigelovii</i>                              |                 |                            |                         |                        |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>      | <i>Artemisia campestris</i> subsp. <i>pacifica</i>      |                 |                            |                         |                        |
| ARCA13      | <i>Artemisia cana</i>                                 | <i>Artemisia cana</i>                                   |                 |                            |                         |                        |
| ARCA14      | <i>Artemisia carruthii</i>                            | <i>Artemisia carruthii</i>                              |                 |                            |                         |                        |
| ARDR4       | <i>Artemisia dracunculus</i>                          | <i>Artemisia dracunculus</i>                            | Low             |                            |                         |                        |
| ARFI2       | <i>Artemisia filifolia</i>                            | <i>Artemisia filifolia</i>                              | High            |                            |                         |                        |
| ARFR3       | <i>Artemisia franserioides</i>                        | <i>Artemisia franserioides</i>                          |                 |                            |                         |                        |
| ARFR4       | <i>Artemisia frigida</i>                              | <i>Artemisia frigida</i>                                | Medium          |                            |                         |                        |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>       | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>       |                 |                            |                         |                        |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i>  | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i>  | Medium          |                            |                         |                        |

## REVEGETATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                                | Erosion Control | Establishment Requirements | Short-term Revegetation | Long-term Revegetation |
|-------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>         | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>       |                 |                            |                         |                        |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>          | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>       |                 |                            |                         |                        |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>         | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>        |                 |                            |                         |                        |
| ARTR2       | <i>Artemisia tridentata</i>                               | <i>Artemisia tridentata</i>                               | Medium          | Medium                     | Medium                  | Medium                 |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>            | <i>Asclepias asperula</i> subsp. <i>asperula</i>          |                 |                            |                         |                        |
| ASEN        | <i>Asclepias engelmanniana</i>                            | <i>Asclepias engelmanniana</i>                            |                 |                            |                         |                        |
| ASIN14      | <i>Asclepias involucrata</i>                              | <i>Asclepias involucrata</i>                              |                 |                            |                         |                        |
| ASMA        | <i>Asclepias macrotis</i>                                 | <i>Asclepias macrotis</i>                                 |                 |                            |                         |                        |
| ASSP        | <i>Asclepias speciosa</i>                                 | <i>Asclepias speciosa</i>                                 | Low             |                            |                         |                        |
| ASSU2       | <i>Asclepias subverticillata</i>                          | <i>Asclepias subverticillata</i>                          |                 |                            |                         |                        |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>            | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>        |                 |                            |                         |                        |
| ASVI        | <i>Asclepias viridiflora</i>                              | <i>Asclepias viridiflora</i>                              |                 |                            |                         |                        |
| ASOF        | <i>Asparagus officinalis</i>                              | <i>Asparagus officinalis</i>                              |                 |                            |                         |                        |
| ASTR2       | <i>Asplenium trichomanes</i>                              | <i>Asplenium trichomanes</i>                              |                 |                            |                         |                        |
| ASER3       | <i>Aster ericoides</i>                                    | <i>Aster ericoides</i>                                    | Medium          |                            |                         |                        |
| ASFE        | <i>Aster fendleri</i>                                     | <i>Aster fendleri</i>                                     |                 |                            |                         |                        |
| ASFO        | <i>Aster foliaceus</i>                                    | <i>Aster foliaceus</i>                                    |                 |                            |                         |                        |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>              | <i>Aster glaucodes</i> var. <i>glaucodes</i>              |                 |                            |                         |                        |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>            | <i>Aster hesperius</i>                                    |                 |                            |                         |                        |
| ASLA5       | <i>Aster laevis</i>                                       | <i>Aster laevis</i>                                       |                 |                            |                         |                        |
| ASNO        | <i>Aster novae-angliae</i>                                | <i>Aster novae-angliae</i>                                |                 |                            |                         |                        |
| ASOC        | <i>Aster occidentalis</i>                                 | <i>Aster occidentalis</i>                                 |                 |                            |                         |                        |
| ALPA14      | <i>Almutaster pauciflorus</i>                             | <i>Aster pauciflorus</i>                                  |                 |                            |                         |                        |
| ASPR2       | <i>Aster praealtus</i>                                    | <i>Aster praealtus</i>                                    |                 |                            |                         |                        |
| ASAG2       | <i>Astragalus agrestis</i>                                | <i>Astragalus agrestis</i>                                |                 |                            |                         |                        |
| ASAM5       | <i>Astragalus amphioxys</i>                               | <i>Astragalus amphioxys</i>                               |                 |                            |                         |                        |
| ASBI2       | <i>Astragalus bisulcatus</i>                              | <i>Astragalus bisulcatus</i>                              | Medium          |                            |                         |                        |
| ASCR2       | <i>Astragalus crassicaupus</i>                            | <i>Astragalus crassicaupus</i>                            |                 |                            |                         |                        |
| ASEM2       | <i>Astragalus emoryanus</i>                               | <i>Astragalus emoryanus</i>                               |                 |                            |                         |                        |
| ASFL2       | <i>Astragalus flexuosus</i>                               | <i>Astragalus flexuosus</i>                               | Low             | Medium                     | Medium                  | Medium                 |
| ASGR3       | <i>Astragalus gracilis</i>                                | <i>Astragalus gracilis</i>                                |                 |                            |                         |                        |
| ASHU2       | <i>Astragalus humistratus</i>                             | <i>Astragalus humistratus</i>                             |                 |                            |                         |                        |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>    | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     |                 |                            |                         |                        |
| ASLE8       | <i>Astragalus lentiginosus</i>                            | <i>Astragalus lentiginosus</i>                            |                 |                            |                         |                        |
| ASLO3       | <i>Astragalus lonchocarpus</i>                            | <i>Astragalus lonchocarpus</i>                            |                 |                            |                         |                        |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | Medium          |                            |                         |                        |
| ASMO7       | <i>Astragalus mollissimus</i>                             | <i>Astragalus mollissimus</i>                             | Medium          |                            |                         |                        |
| ASPR5       | <i>Astragalus praelongus</i>                              | <i>Astragalus praelongus</i>                              |                 |                            |                         |                        |
| ASSH3       | <i>Astragalus shortianus</i>                              | <i>Astragalus shortianus</i>                              |                 |                            |                         |                        |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>       | <i>Athyrium filix-femina</i> var. <i>californicum</i>     |                 |                            |                         |                        |

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|-------------|-------------------------------------------------------------|-----------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                           | Medium          | Medium                     | Low                     | High                   |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                              |                 |                            |                         |                        |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                              |                 |                            |                         |                        |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                               |                 |                            |                         |                        |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                            |                 |                            |                         |                        |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                           |                 |                            |                         |                        |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                         |                 |                            |                         |                        |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                          |                 |                            |                         |                        |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                        |                 |                            |                         |                        |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                            |                 |                            |                         |                        |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                              |                 |                            |                         |                        |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                           |                 |                            |                         |                        |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                |                 |                            |                         |                        |
| BEPL        | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                         |                 |                            |                         |                        |
| BEOC2       | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                          | High            |                            |                         |                        |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                             |                 |                            |                         |                        |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>       |                 |                            |                         |                        |
| BICE        | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                |                 |                            |                         |                        |
| BITR        | <i>Bidens tripartita</i>                                    | <i>Bidens cosmosa</i>                               |                 |                            |                         |                        |
| BIFR        | <i>Bidens frondosa</i>                                      | <i>Bidens frondosa</i>                              |                 |                            |                         |                        |
| BLTR        | <i>Blepharoneuron tricholepis</i>                           | <i>Blepharoneuron tricholepis</i>                   |                 |                            |                         |                        |
| BOCO2       | <i>Boerhavia coulteri</i>                                   | <i>Boerhaavia coulteri</i>                          |                 |                            |                         |                        |
| BOMU        | <i>Botrychium multifidum</i>                                | <i>Botrychium multifidum</i> subsp. <i>coulteri</i> |                 |                            |                         |                        |
| BOAR        | <i>Bouteloua aristidoides</i>                               | <i>Bouteloua aristidoides</i>                       |                 |                            |                         |                        |
| BOBA2       | <i>Bouteloua barbata</i>                                    | <i>Bouteloua barbata</i>                            |                 |                            |                         |                        |
| BOCU        | <i>Bouteloua curtipendula</i>                               | <i>Bouteloua curtipendula</i>                       | High            | Medium                     | Low                     | High                   |
| BOER4       | <i>Bouteloua eriopoda</i>                                   | <i>Bouteloua eriopoda</i>                           |                 |                            |                         |                        |
| BOGR2       | <i>Bouteloua gracilis</i>                                   | <i>Bouteloua gracilis</i>                           | High            | Medium                     | Low                     | High                   |
| BOHI2       | <i>Bouteloua hirsuta</i>                                    | <i>Bouteloua hirsuta</i>                            | Low             |                            |                         |                        |
| BOSI2       | <i>Bouteloua simplex</i>                                    | <i>Bouteloua simplex</i>                            | Low             |                            |                         |                        |
| BRJU        | <i>Brassica juncea</i>                                      | <i>Brassica juncea</i>                              |                 |                            |                         |                        |
| BRNI        | <i>Brassica nigra</i>                                       | <i>Brassica nigra</i>                               |                 |                            |                         |                        |
| BRBE        | <i>Brickellia betonicifolia</i>                             | <i>Brickellia betonicaefolia</i>                    |                 |                            |                         |                        |
| BRBR2       | <i>Brickellia brachyphylla</i>                              | <i>Brickellia brachyphylla</i>                      |                 |                            |                         |                        |
| BRCA3       | <i>Brickellia californica</i>                               | <i>Brickellia californica</i>                       |                 |                            |                         |                        |
| BRFE        | <i>Brickellia fendleri</i>                                  | <i>Brickellia fendleri</i>                          |                 |                            |                         |                        |
| BRGR        | <i>Brickellia grandiflora</i>                               | <i>Brickellia grandiflora</i>                       |                 |                            |                         |                        |
| BRAN        | <i>Bromus anomalus</i>                                      | <i>Bromus anomalus</i>                              | Medium          |                            |                         |                        |
| BRCA6       | <i>Bromus catharticus</i>                                   | <i>Bromus catharticus</i>                           |                 |                            |                         |                        |
| BRCI2       | <i>Bromus ciliatus</i>                                      | <i>Bromus ciliatus</i>                              |                 |                            |                         |                        |



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|-------------|-----------------------------------------------|--------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| BRFR2       | <i>Bromus frondosus</i>                       | <i>Bromus frondosus</i>        |                 |                            |                         |                        |
| BRIN2       | <i>Bromus inermis</i>                         | <i>Bromus inermis</i>          | High            | Low                        | Medium                  | High                   |
| BRJA        | <i>Bromus japonicus</i>                       | <i>Bromus japonicus</i>        | Low             |                            |                         |                        |
| BRLA6       | <i>Bromus lanatipes</i>                       | <i>Bromus lanatipes</i>        |                 |                            |                         |                        |
| BRMA4       | <i>Bromus marginatus</i>                      | <i>Bromus marginatus</i>       | Medium          | Low                        | Medium                  | Medium                 |
| BRKA2       | <i>Bromus kalmii</i>                          | <i>Bromus purgans</i>          |                 |                            |                         |                        |
| BRTE        | <i>Bromus tectorum</i>                        | <i>Bromus tectorum</i>         | Low             |                            |                         |                        |
| BUDA        | <i>Buchloe dactyloides</i>                    | <i>Buchloe dactyloides</i>     | High            | Medium                     | Low                     | High                   |
| CAGU        | <i>Calochortus gunnisonii</i>                 | <i>Calochortus gunnisonii</i>  |                 |                            |                         |                        |
| CANU3       | <i>Calochortus nuttallii</i>                  | <i>Calochortus nuttallii</i>   |                 |                            |                         |                        |
| CAHA14      | <i>Calylophus hartwegii</i>                   | <i>Calylophus hartwegii</i>    |                 |                            |                         |                        |
| CABU        | <i>Calypso bulbosa</i>                        | <i>Calypso bulbosa</i>         |                 |                            |                         |                        |
| CAMI2       | <i>Camelina microcarpa</i>                    | <i>Camelina microcarpa</i>     |                 |                            |                         |                        |
| CAPA10      | <i>Campanula parryi</i>                       | <i>Campanula parryi</i>        |                 |                            |                         |                        |
| CARO2       | <i>Campanula rotundifolia</i>                 | <i>Campanula rotundifolia</i>  | Low             |                            |                         |                        |
| CABU2       | <i>Capsella bursa-pastoris</i>                | <i>Capsella bursa-pastoris</i> | Low             |                            |                         |                        |
| CACO6       | <i>Cardamine cordifolia</i>                   | <i>Cardamine cordifolia</i>    |                 |                            |                         |                        |
| CADR        | <i>Cardaria draba</i>                         | <i>Cardaria draba</i>          |                 |                            |                         |                        |
| CANU4       | <i>Carduus nutans</i>                         | <i>Carduus nutans</i>          |                 |                            |                         |                        |
| CAAQ        | <i>Carex aquatilis</i>                        | <i>Carex aquatilis</i>         | High            |                            |                         |                        |
| CABE3       | <i>Carex bella</i>                            | <i>Carex bella</i>             |                 |                            |                         |                        |
| CABO2       | <i>Carex bolanderi</i>                        | <i>Carex bolanderi</i>         |                 |                            |                         |                        |
| CABR10      | <i>Carex brevior</i>                          | <i>Carex brevior</i>           |                 |                            |                         |                        |
| CACA11      | <i>Carex canescens</i>                        | <i>Carex canescens</i>         |                 |                            |                         |                        |
| CADO2       | <i>Carex douglasii</i>                        | <i>Carex douglasii</i>         |                 |                            |                         |                        |
| CADU6       | <i>Carex duriuscula</i>                       | <i>Carex eleocharis</i>        | Medium          |                            |                         |                        |
| CAMI7       | <i>Carex microptera</i>                       | <i>Carex festivella</i>        | High            |                            |                         |                        |
| CAFO3       | <i>Carex foenea</i>                           | <i>Carex foenea</i>            |                 |                            |                         |                        |
| CAGE        | <i>Carex geophila</i>                         | <i>Carex geophila</i>          |                 |                            |                         |                        |
| CAHY4       | <i>Carex hystericina</i>                      | <i>Carex hystericina</i>       |                 |                            |                         |                        |
| CAIN11      | <i>Carex interior</i>                         | <i>Carex interior</i>          |                 |                            |                         |                        |
| CALA30      | <i>Carex lanuginosa</i>                       | <i>Carex lanuginosa</i>        | High            |                            |                         |                        |
| CANE2       | <i>Carex nebraskensis</i>                     | <i>Carex nebraskensis</i>      | High            |                            |                         |                        |
| CAOC2       | <i>Carex occidentalis</i>                     | <i>Carex occidentalis</i>      |                 |                            |                         |                        |
| CAPR5       | <i>Carex praegracilis</i>                     | <i>Carex praegracilis</i>      |                 |                            |                         |                        |
| CASC11      | <i>Carex scoparia</i>                         | <i>Carex scoparia</i>          |                 |                            |                         |                        |
| CAST5       | <i>Carex stipata</i>                          | <i>Carex stipata</i>           |                 |                            |                         |                        |
| CAXE        | <i>Carex xerantica</i>                        | <i>Carex xerantica</i>         |                 |                            |                         |                        |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i> | <i>Castilleja confusa</i>      |                 |                            |                         |                        |
| CAIN14      | <i>Castilleja integra</i>                     | <i>Castilleja integra</i>      | Low             | Low                        |                         |                        |

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|-------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| CALI4       | <i>Castilleja linariifolia</i>                        | <i>Castilleja linariaefolia</i>                           | Medium          |                            |                         |                        |
| CALI5       | <i>Castilleja lineata</i>                             | <i>Castilleja lineata</i>                                 |                 |                            |                         |                        |
| CAMI12      | <i>Castilleja miniata</i>                             | <i>Castilleja miniata</i>                                 | Medium          |                            |                         |                        |
| CAMI13      | <i>Castilleja minor</i>                               | <i>Castilleja minor</i>                                   |                 |                            |                         |                        |
| CARH4       | <i>Castilleja rhexiifolia</i>                         | <i>Castilleja rhexifolia</i>                              |                 |                            |                         |                        |
| CEFE        | <i>Ceanothus fendleri</i>                             | <i>Ceanothus fendleri</i>                                 | Medium          |                            |                         |                        |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>        | <i>Celtis reticulata</i>                                  |                 |                            |                         |                        |
| CEEC        | <i>Cenchrus echinatus</i>                             | <i>Cenchrus echinatus</i>                                 |                 |                            |                         |                        |
| CEIN4       | <i>Cenchrus incertus</i>                              | <i>Cenchrus pauciflorus</i>                               |                 |                            |                         |                        |
| CECA3       | <i>Centaurium calycosum</i>                           | <i>Centaurium calycosum</i>                               |                 |                            |                         |                        |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                                  |                 |                            |                         |                        |
| CEBR3       | <i>Cerastium brachypodium</i>                         | <i>Cerastium brachypodium</i>                             |                 |                            |                         |                        |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                                 |                 |                            |                         |                        |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>          | Medium          | Medium                     | Low                     | Medium                 |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>     |                 |                            |                         |                        |
| CHCO        | <i>Chamaesaracha coniodes</i>                         | <i>Chamaesaracha conioides</i>                            |                 |                            |                         |                        |
| CHCO2       | <i>Chamaesaracha coronopus</i>                        | <i>Chamaesaracha coronpus</i>                             |                 |                            |                         |                        |
| CHFE        | <i>Cheilanthes feei</i>                               | <i>Cheilanthes feei</i>                                   |                 |                            |                         |                        |
| CHFE2       | <i>Cheilanthes fendleri</i>                           | <i>Cheilanthes fendleri</i>                               |                 |                            |                         |                        |
| CHTO2       | <i>Cheilanthes tomentosa</i>                          | <i>Cheilanthes tomentosa</i>                              |                 |                            |                         |                        |
| CHEA        | <i>Cheilanthes eatonii</i>                            | <i>Cheilanthus eatonii</i>                                |                 |                            |                         |                        |
| CHAL6       | <i>Chenopodium albescens</i>                          | <i>Chenopodium albescens</i>                              |                 |                            |                         |                        |
| CHAL7       | <i>Chenopodium album</i>                              | <i>Chenopodium album</i>                                  |                 |                            |                         |                        |
| CHBE4       | <i>Chenopodium berlandieri</i>                        | <i>Chenopodium berlandieri</i>                            |                 |                            |                         |                        |
| CHCA4       | <i>Chenopodium capitatum</i>                          | <i>Chenopodium capitatum</i>                              |                 |                            |                         |                        |
| CHCY        | <i>Chenopodium cycloides</i>                          | <i>Chenopodium cycloides</i>                              |                 |                            |                         |                        |
| CHDE        | <i>Chenopodium desiccatum</i>                         | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>      |                 |                            |                         |                        |
| CHPR5       | <i>Chenopodium pratericola</i>                        | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i> |                 |                            |                         |                        |
| CHFR3       | <i>Chenopodium fremontii</i>                          | <i>Chenopodium fremontii</i>                              |                 |                            |                         |                        |
| CHSI2       | <i>Chenopodium simplex</i>                            | <i>Chenopodium gigantospermum</i>                         |                 |                            |                         |                        |
| CHGL3       | <i>Chenopodium glaucum</i>                            | <i>Chenopodium glaucum</i>                                |                 |                            |                         |                        |
| CHGR2       | <i>Chenopodium graveolens</i>                         | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>    |                 |                            |                         |                        |
| CHIN2       | <i>Chenopodium incanum</i>                            | <i>Chenopodium incanum</i>                                |                 |                            |                         |                        |
| CHLE4       | <i>Chenopodium leptophyllum</i>                       | <i>Chenopodium leptophyllum</i>                           | Low             |                            |                         |                        |
| CHRU        | <i>Chenopodium rubrum</i>                             | <i>Chenopodium rubrum</i>                                 |                 |                            |                         |                        |
| CHWA        | <i>Chenopodium watsonii</i>                           | <i>Chenopodium watsonii</i>                               |                 |                            |                         |                        |
| CHUM        | <i>Chimaphila umbellata</i>                           | <i>Chimaphila umbellata</i>                               |                 |                            |                         |                        |
| CHVI4       | <i>Chloris virgata</i>                                | <i>Chloris virgata</i>                                    |                 |                            |                         |                        |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>        | <i>Chrysopsis villosa</i>                                 |                 |                            |                         |                        |

# REVEGETATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                     | Erosion Control | Establishment Requirements | Short-term Revegetation | Long-term Revegetation |
|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         |                 |                            |                         |                        |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      |                 |                            |                         |                        |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           |                 |                            |                         |                        |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             |                 |                            |                         |                        |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> | Medium          |                            |                         |                        |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        | Medium          |                            |                         |                        |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          |                 |                            |                         |                        |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    |                 |                            |                         |                        |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                                            | <i>Cirsium ochrocentrum</i>                                    |                 |                            |                         |                        |
| CIPA5       | <i>Cirsium pallidum</i>                                                                | <i>Cirsium pallidum</i>                                        |                 |                            |                         |                        |
| CIPA        | <i>Cirsium parryi</i>                                                                  | <i>Cirsium parryi</i>                                          |                 |                            |                         |                        |
| CICA10      | <i>Cirsium calcareum</i>                                                               | <i>Cirsium pulchellum</i>                                      |                 |                            |                         |                        |
| CIUN        | <i>Cirsium undulatum</i>                                                               | <i>Cirsium undulatum</i>                                       | Medium          |                            |                         |                        |
| CIVU        | <i>Cirsium vulgare</i>                                                                 | <i>Cirsium vulgare</i>                                         |                 |                            |                         |                        |
| CLDR        | <i>Clematis drummondii</i>                                                             | <i>Clematis drummondii</i>                                     |                 |                            |                         |                        |
| CLLI2       | <i>Clematis ligusticifolia</i>                                                         | <i>Clematis ligusticifolia</i>                                 | Medium          | Medium                     | Low                     | Medium                 |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i>                                      | <i>Clematis pseudoalpina</i>                                   |                 |                            |                         |                        |
| CLSE        | <i>Cleome serrulata</i>                                                                | <i>Cleome serrulata</i>                                        | Low             |                            |                         |                        |
| CLVU        | <i>Clinopodium vulgare</i>                                                             | <i>Clinopodium vulgare</i>                                     |                 |                            |                         |                        |
| COLI2       | <i>Collomia linearis</i>                                                               | <i>Collomia linearis</i>                                       |                 |                            |                         |                        |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>                                          | <i>Comandra pallida</i>                                        |                 |                            |                         |                        |
| CODI4       | <i>Commelina dianthifolia</i>                                                          | <i>Commelina dianthifolia</i>                                  |                 |                            |                         |                        |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>                                          | <i>Conopholis mexicana</i>                                     |                 |                            |                         |                        |
| COAR4       | <i>Convolvulus arvensis</i>                                                            | <i>Convolvulus arvensis</i>                                    |                 |                            |                         |                        |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>                                            | <i>Convolvulus sepium</i>                                      |                 |                            |                         |                        |
| COCA5       | <i>Conyza canadensis</i>                                                               | <i>Conyza canadensis</i>                                       |                 |                            |                         |                        |
| COMA4       | <i>Corallorrhiza maculata</i>                                                          | <i>Corallorrhiza maculata</i>                                  |                 |                            |                         |                        |
| COST        | <i>Corallorrhiza striata</i>                                                           | <i>Corallorrhiza striata</i>                                   |                 |                            |                         |                        |
| COWR2       | <i>Cordylanthus wrightii</i>                                                           | <i>Cordylanthus wrightii</i>                                   |                 |                            |                         |                        |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i>                                       | <i>Coreopsis cardaminefolia</i>                                |                 |                            |                         |                        |
| COTI3       | <i>Coreopsis tinctoria</i>                                                             | <i>Coreopsis tinctoria</i>                                     |                 |                            |                         |                        |
| COSA        | <i>Coriandrum sativum</i>                                                              | <i>Coriandrum sativum</i>                                      |                 |                            |                         |                        |
| COSES       | <i>Comus sericea</i> ssp. <i>sericea</i>                                               | <i>Comus stolonifera</i>                                       | Medium          | Medium                     | Medium                  | High                   |
| COAU2       | <i>Corydalis aurea</i>                                                                 | <i>Corydalis aurea</i>                                         | Low             |                            |                         |                        |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>                                         | <i>Coryphantha vivipara</i>                                    | Low             |                            |                         |                        |
| COPA12      | <i>Cosmos parviflorus</i>                                                              | <i>Cosmos parviflorus</i>                                      |                 |                            |                         |                        |
| CRER        | <i>Crataegus erythropoda</i>                                                           | <i>Crataegus erythropoda</i>                                   |                 |                            |                         |                        |

# REVEGETATION CON'T

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|-------------|------------------------------------------------|-------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| CRTE4       | <i>Croton texensis</i>                         | <i>Croton texensis</i>                                |                 |                            |                         |                        |
| CRFE3       | <i>Cryptantha fendleri</i>                     | <i>Cryptantha fendleri</i>                            |                 |                            |                         |                        |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>  | <i>Cryptantha jamesii</i>                             |                 |                            |                         |                        |
| CRM15       | <i>Cryptantha minima</i>                       | <i>Cryptantha minima</i>                              |                 |                            |                         |                        |
| CRAC3       | <i>Cryptogramma acrostichoides</i>             | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> |                 |                            |                         |                        |
| CUFO        | <i>Cucurbita foetidissima</i>                  | <i>Cucurbita foetidissima</i>                         |                 |                            |                         |                        |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i> | <i>Cuscuta campestris</i>                             |                 |                            |                         |                        |
| CUUM        | <i>Cuscuta umbellata</i>                       | <i>Cuscuta umbellata</i>                              |                 |                            |                         |                        |
| CYBU        | <i>Cymopterus bulbosus</i>                     | <i>Cymopterus bulbosus</i>                            |                 |                            |                         |                        |
| CYDA        | <i>Cynodon dactylon</i>                        | <i>Cynodon dactylon</i>                               |                 |                            |                         |                        |
| CYEC        | <i>Cynosurus echinatus</i>                     | <i>Cynosurus echinatus</i>                            |                 |                            |                         |                        |
| CYSQ        | <i>Cyperus squarrosus</i>                      | <i>Cyperus aristatus</i>                              |                 |                            |                         |                        |
| MISE3       | <i>Mitreola sessilifolia</i>                   | <i>Cyperus esculentus</i>                             |                 |                            |                         |                        |
| CYFE2       | <i>Cyperus fendlerianus</i>                    | <i>Cyperus fendlerianus</i>                           |                 |                            |                         |                        |
| CYBI6       | <i>Cyperus bipartitus</i>                      | <i>Cyperus rivularis</i>                              |                 |                            |                         |                        |
| CYPU10      | <i>Cypripedium pubescens</i>                   | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    |                 |                            |                         |                        |
| CYFR2       | <i>Cystopteris fragilis</i>                    | <i>Cystopteris fragilis</i>                           |                 |                            |                         |                        |
| DAGL        | <i>Dactylis glomerata</i>                      | <i>Dactylis glomerata</i>                             | High            | Low                        | Medium                  | High                   |
| DABR        | <i>Dalea brachystachya</i>                     | <i>Dalea brachystachys</i>                            |                 |                            |                         |                        |
| DAFO        | <i>Dalea formosa</i>                           | <i>Dalea formosa</i>                                  |                 |                            |                         |                        |
| DALE3       | <i>Dalea leporina</i>                          | <i>Dalea leporina</i>                                 |                 |                            |                         |                        |
| DANA        | <i>Dalea nana</i>                              | <i>Dalea nana</i>                                     |                 |                            |                         |                        |
| DAPO3       | <i>Dalea polygonoides</i>                      | <i>Dalea polygonoides</i>                             |                 |                            |                         |                        |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>     | <i>Dalea terminalis</i>                               |                 |                            |                         |                        |
| DAIN        | <i>Danthonia intermedia</i>                    | <i>Danthonia intermedia</i>                           |                 |                            |                         |                        |
| DAPA2       | <i>Danthonia parryi</i>                        | <i>Danthonia parryi</i>                               | Medium          |                            |                         |                        |
| DASP2       | <i>Danthonia spicata</i>                       | <i>Danthonia spicata</i>                              |                 |                            |                         |                        |
| DAWR2       | <i>Datura wrightii</i>                         | <i>Datura meteloides</i>                              |                 |                            |                         |                        |
| DEOC        | <i>Delphinium X occidentale</i>                | <i>Delphinium occidentale</i>                         |                 |                            |                         |                        |
| DEWO        | <i>Delphinium wootonii</i>                     | <i>Delphinium virescens</i> subsp. <i>wootonii</i>    |                 |                            |                         |                        |
| DECE        | <i>Deschampsia cespitosa</i>                   | <i>Deschampsia caespitosa</i>                         | High            |                            |                         |                        |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>   | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>        |                 |                            |                         |                        |
| DEPI        | <i>Descurainia pinnata</i>                     | <i>Descurainia pinnata</i>                            |                 |                            |                         |                        |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>   | <i>Descurainia richardsonii</i>                       |                 |                            |                         |                        |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>   | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>  |                 |                            |                         |                        |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>  | <i>Descurainia richardsonii</i> subsp. <i>procera</i> |                 |                            |                         |                        |
| DESO2       | <i>Descurainia sophia</i>                      | <i>Descurainia sophia</i>                             |                 |                            |                         |                        |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>  | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i> |                 |                            |                         |                        |
| DISP        | <i>Distichlis spicata</i>                      | <i>Distichlis spicata</i>                             |                 |                            |                         |                        |
| DISP        | <i>Distichlis spicata</i>                      | <i>Distichlis stricta</i>                             | High            |                            |                         |                        |

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| DIW2        | <i>Dimorphocarpa wislizeni</i>                                  | <i>Dithyrea wislizenii</i>                                      |                 |                            |                         |                        |
| DOAL        | <i>Dodecatheon alpinum</i>                                      | <i>Dodecatheon alpinum</i>                                      |                 |                            |                         |                        |
| DOPU        | <i>Dodecatheon pulchellum</i>                                   | <i>Dodecatheon pulchellum</i>                                   |                 |                            |                         |                        |
| DRAU        | <i>Draba aurea</i>                                              | <i>Draba aurea</i> var. <i>aurea</i>                            |                 |                            |                         |                        |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>                  | <i>Draba helleriana</i> var. <i>helleriana</i>                  |                 |                            |                         |                        |
| DRRE        | <i>Draba rectifruca</i>                                         | <i>Draba rectifruca</i>                                         |                 |                            |                         |                        |
| DRRE2       | <i>Draba reptans</i>                                            | <i>Draba reptans</i>                                            |                 |                            |                         |                        |
| DRSP        | <i>Draba spectabilis</i>                                        | <i>Draba spectabilis</i>                                        |                 |                            |                         |                        |
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     |                 |                            |                         |                        |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         |                 |                            |                         |                        |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        |                 |                            |                         |                        |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    |                 |                            |                         |                        |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> |                 |                            |                         |                        |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   |                 |                            |                         |                        |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       |                 |                            |                         |                        |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    |                 |                            |                         |                        |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   | Medium          | Medium                     | Low                     | Medium                 |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  |                 |                            |                         |                        |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        | Medium          | Medium                     | Medium                  | Medium                 |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           | Medium          |                            |                         |                        |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        |                 |                            |                         |                        |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        |                 |                            |                         |                        |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                      | <i>Ephedra viridis</i> var. <i>viridis</i>                      | Medium          | Medium                     | Low                     | Medium                 |
| EPAN2       | <i>Epilobium angustifolium</i>                                  | <i>Epilobium angustifolium</i>                                  | Low             |                            |                         |                        |
| EPCI        | <i>Epilobium ciliatum</i>                                       | <i>Epilobium ciliatum</i>                                       |                 |                            |                         |                        |
| EPOR2       | <i>Epilobium oregonense</i>                                     | <i>Epilobium oregonense</i>                                     |                 |                            |                         |                        |
| EPBR3       | <i>Epilobium brachycarpum</i>                                   | <i>Epilobium paniculatum</i>                                    |                 |                            |                         |                        |
| EPGI        | <i>Epipactis gigantea</i>                                       | <i>Epipactis gigantea</i>                                       |                 |                            |                         |                        |
| EQAR        | <i>Equisetum arvense</i>                                        | <i>Equisetum arvense</i>                                        |                 |                            |                         |                        |
| EQHY        | <i>Equisetum hyemale</i>                                        | <i>Equisetum hiemale</i>                                        |                 |                            |                         |                        |
| EQLA        | <i>Equisetum laevigatum</i>                                     | <i>Equisetum laevigatum</i>                                     |                 |                            |                         |                        |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>              | <i>Eragrostis arida</i>                                         |                 |                            |                         |                        |
| ERBA2       | <i>Eragrostis barrelieri</i>                                    | <i>Eragrostis barrelieri</i>                                    |                 |                            |                         |                        |
| ERCI        | <i>Eragrostis cilianensis</i>                                   | <i>Eragrostis cilianensis</i>                                   |                 |                            |                         |                        |
| ERCU2       | <i>Eragrostis curvula</i>                                       | <i>Eragrostis curvula</i>                                       |                 |                            |                         |                        |
| ERHY        | <i>Eragrostis hypnoides</i>                                     | <i>Eragrostis hypnoides</i>                                     |                 |                            |                         |                        |
| ERPE        | <i>Eragrostis pectinacea</i>                                    | <i>Eragrostis pectinacea</i>                                    |                 |                            |                         |                        |
| ERTR3       | <i>Eragrostis trichodes</i>                                     | <i>Eragrostis trichodes</i>                                     | Medium          | Medium                     | Low                     | Medium                 |
| ERCA4       | <i>Erigeron canus</i>                                           | <i>Erigeron canus</i>                                           |                 |                            |                         |                        |

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|-------------|---------------------------------------------------------|---------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| ERDI4       | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               |                 |                            |                         |                        |
| EREL9       | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 |                 |                            |                         |                        |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             |                 |                            |                         |                        |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> |                 |                            |                         |                        |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      |                 |                            |                         |                        |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              |                 |                            |                         |                        |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  |                 |                            |                         |                        |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          |                 |                            |                         |                        |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            |                 |                            |                         |                        |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinnus</i>         | <i>Erigeron pumilus</i> subsp. <i>concinnoides</i>      |                 |                            |                         |                        |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              |                 |                            |                         |                        |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 | Medium          |                            |                         |                        |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | Medium          |                            |                         |                        |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            |                 |                            |                         |                        |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                |                 |                            |                         |                        |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               |                 |                            |                         |                        |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                |                 |                            |                         |                        |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               |                 |                            |                         |                        |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             |                 |                            |                         |                        |
| ERAL4       | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 | Low             |                            |                         |                        |
| ERAN4       | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 |                 |                            |                         |                        |
| ERCE2       | <i>Eriogonum cernuum</i>                                | <i>Eriogonum cernuum</i>                                |                 |                            |                         |                        |
| EREF        | <i>Eriogonum effusum</i>                                | <i>Eriogonum effusum</i>                                | Medium          |                            |                         |                        |
| ERJA        | <i>Eriogonum jamesii</i>                                | <i>Eriogonum jamesii</i>                                |                 |                            |                         |                        |
| ERLE9       | <i>Eriogonum leptocladon</i>                            | <i>Eriogonum leptocladon</i>                            |                 |                            |                         |                        |
| ERPO4       | <i>Eriogonum polycladon</i>                             | <i>Eriogonum polycladon</i>                             |                 |                            |                         |                        |
| ERRA3       | <i>Eriogonum racemosum</i>                              | <i>Eriogonum racemosum</i>                              |                 |                            |                         |                        |
| ERIC6       | <i>Erodium cicutarium</i>                               | <i>Erodium cicutarium</i>                               |                 |                            |                         |                        |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>         | <i>Erysimum asperum</i>                                 | Low             |                            |                         |                        |
| ERCA14      | <i>Erysimum capitatum</i>                               | <i>Erysimum capitatum</i>                               |                 |                            |                         |                        |
| ERIN7       | <i>Erysimum inconspicuum</i>                            | <i>Erysimum inconspicuum</i>                            |                 |                            |                         |                        |
| ERHE7       | <i>Erythronium hendersonii</i>                          | <i>Eupatorium herbaceum</i>                             |                 |                            |                         |                        |
| CHAL11      | <i>Chamaesyce albomarginata</i>                         | <i>Euphorbia albomarginata</i>                          |                 |                            |                         |                        |
| EUDE4       | <i>Euphorbia dentata</i>                                | <i>Euphorbia dentata</i>                                |                 |                            |                         |                        |
| EUDE4       | <i>Euphorbia dentata</i>                                | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>        |                 |                            |                         |                        |
| EUEX4       | <i>Euphorbia exstipulata</i>                            | <i>Euphorbia exstipulata</i>                            |                 |                            |                         |                        |
| CHFE3       | <i>Chamaesyce fendleri</i>                              | <i>Euphorbia fendleri</i> var. <i>fendleri</i>          |                 |                            |                         |                        |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>             | <i>Euphorbia geyeri</i>                                 |                 |                            |                         |                        |
| EULU        | <i>Euphorbia lurida</i>                                 | <i>Euphorbia lurida</i>                                 |                 |                            |                         |                        |
| CHMI8       | <i>Chamaesyce missurica</i>                             | <i>Euphorbia missurica</i> var. <i>intermedia</i>       |                 |                            |                         |                        |

# REVEGETATION CON'T

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|-------------|-----------------------------------------------------------|-------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                    |                 |                            |                         |                        |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                       |                 |                            |                         |                        |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                        |                 |                            |                         |                        |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                  |                 |                            |                         |                        |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                           |                 |                            |                         |                        |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                        |                 |                            |                         |                        |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                        |                 |                            |                         |                        |
| FERUR       | <i>Fendleri rupicola</i> var. <i>rupicola</i>             | <i>Fendleri rupicola</i> var. <i>rupicola</i>   |                 |                            |                         |                        |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                        | High            | Medium                     | Medium                  | High                   |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                          |                 |                            |                         |                        |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                        |                 |                            |                         |                        |
| FEOV        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                            | Medium          | Medium                     | Low                     | Medium                 |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                          |                 |                            |                         |                        |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                         | High            |                            |                         |                        |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                   |                 |                            |                         |                        |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>               | <i>Fragaria americana</i>                       |                 |                            |                         |                        |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>         | <i>Fragaria ovalis</i>                          |                 |                            |                         |                        |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                        | <i>Franseria acanthicarpa</i>                   |                 |                            |                         |                        |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                         | <i>Franseria confertiflora</i>                  |                 |                            |                         |                        |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                       | <i>Gaillardia pinnatifida</i>                   |                 |                            |                         |                        |
| GAAP2       | <i>Galium aparine</i> L.                                  | <i>Galium aparine</i>                           |                 |                            |                         |                        |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>asperrimum</i>            | <i>Galium asperimum</i>                         |                 |                            |                         |                        |
| GABO2       | <i>Galium boreale</i>                                     | <i>Galium boreale</i>                           | Low             |                            |                         |                        |
| GAFE        | <i>Galium fendleri</i>                                    | <i>Galium fendleri</i>                          |                 |                            |                         |                        |
| GAMI        | <i>Galium microphyllum</i>                                | <i>Galium microphyllum</i>                      |                 |                            |                         |                        |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>            | <i>Galium tinctorum</i> var. <i>subbiflorum</i> |                 |                            |                         |                        |
| GACO5       | <i>Gaura coccinea</i>                                     | <i>Gaura coccinea</i>                           |                 |                            |                         |                        |
| GAPA6       | <i>Gaura parviflora</i>                                   | <i>Gaura parviflora</i>                         |                 |                            |                         |                        |
| GEAF        | <i>Gentiana affinis</i>                                   | <i>Gentiana affinis</i>                         |                 |                            |                         |                        |
| GEAF        | <i>Gentiana affinis</i>                                   | <i>Gentiana bigelovii</i>                       |                 |                            |                         |                        |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>             | <i>Gentiana plebeia</i>                         |                 |                            |                         |                        |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>             | <i>Gentiana strictiflora</i>                    |                 |                            |                         |                        |
| GECA3       | <i>Geranium caespitosum</i>                               | <i>Geranium caespitosum</i>                     |                 |                            |                         |                        |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i>         | <i>Geranium fremontii</i>                       | Medium          |                            |                         |                        |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>            | <i>Geranium fremontii</i> var. <i>parryi</i>    |                 |                            |                         |                        |
| GERI        | <i>Geranium richardsonii</i>                              | <i>Geranium richardsonii</i>                    | Medium          |                            |                         |                        |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>           | <i>Geum macrophyllum</i> var. <i>perincisum</i> |                 |                            |                         |                        |
| GERI2       | <i>Geum rivale</i>                                        | <i>Geum rivale</i>                              |                 |                            |                         |                        |
| GEAL3       | <i>Geum aleppicum</i>                                     | <i>Geum strictum</i> var. <i>strictum</i>       |                 |                            |                         |                        |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>                | <i>Geum triflorum</i> var. <i>ciliatum</i>      |                 |                            |                         |                        |

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|-------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>                                    | <i>Gilia flavocincta</i> subsp. <i>australis</i>       |                 |                            |                         |                        |
| GILE3       | <i>Gilia leptomeria</i>                                                           | <i>Gilia leptomeria</i>                                |                 |                            |                         |                        |
| GIPI        | <i>Gilia pinnatifida</i>                                                          | <i>Gilia pinnatifida</i>                               |                 |                            |                         |                        |
| GLBO        | <i>Glyceria borealis</i>                                                          | <i>Glyceria borealis</i>                               |                 |                            |                         |                        |
| GLGR        | <i>Glyceria grandis</i>                                                           | <i>Glyceria grandis</i>                                |                 |                            |                         |                        |
| GLST        | <i>Glyceria striata</i>                                                           | <i>Glyceria striata</i>                                | Medium          |                            |                         |                        |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                                                       | <i>Glycyrrhiza lepidota</i>                            | Medium          |                            |                         |                        |
| PSST7       | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             |                 |                            |                         |                        |
| PSST7       | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             |                 |                            |                         |                        |
| GNEX        | <i>Gnaphalium exilifolium</i>                                                     | <i>Gnaphalium grayi</i>                                |                 |                            |                         |                        |
| PSMA11      | <i>Pseudognaphalium macounii</i>                                                  | <i>Gnaphalium macounii</i>                             |                 |                            |                         |                        |
| GNPA        | <i>Gnaphalium palustre</i>                                                        | <i>Gnaphalium palustre</i>                             |                 |                            |                         |                        |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i>                           | <i>Gnaphalium wrightii</i>                             |                 |                            |                         |                        |
| GOOB2       | <i>Goodyera oblongifolia</i>                                                      | <i>Goodyera oblongifolia</i>                           |                 |                            |                         |                        |
| GORE2       | <i>Goodyera repens</i>                                                            | <i>Goodyera repens</i>                                 |                 |                            |                         |                        |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>                                      | <i>Grindelia aphanactis</i>                            |                 |                            |                         |                        |
| GRFA        | <i>Grindelia fastigiata</i>                                                       | <i>Grindelia fastigiata</i>                            |                 |                            |                         |                        |
| GRSQ        | <i>Grindelia squarrosa</i>                                                        | <i>Grindelia squarrosa</i>                             | Medium          |                            |                         |                        |
| GUMI        | <i>Gutierrezia microcephala</i>                                                   | <i>Gutierrezia microcephala</i>                        |                 |                            |                         |                        |
| GUSA2       | <i>Gutierrezia sarothrae</i>                                                      | <i>Gutierrezia sarothrae</i>                           | Low             |                            |                         |                        |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>                              | <i>Habenaria hyperborea</i>                            |                 |                            |                         |                        |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>                            | <i>Habenaria sparsiflora</i>                           |                 |                            |                         |                        |
| HAFL2       | <i>Hackelia floribunda</i>                                                        | <i>Hackelia floribunda</i>                             |                 |                            |                         |                        |
| HABE3       | <i>Hackelia besseyi</i>                                                           | <i>Hackelia grisea</i>                                 |                 |                            |                         |                        |
| HAPI2       | <i>Hackelia pinetorum</i>                                                         | <i>Hackelia pinetorum</i>                              |                 |                            |                         |                        |
| PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i>                                        | <i>Haplopappus croceus</i>                             |                 |                            |                         |                        |
| MAGR10      | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                            |                 |                            |                         |                        |
| MAGR6       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                           |                 |                            |                         |                        |
| SOPA4       | <i>Solidago parryi</i>                                                            | <i>Haplopappus parryi</i>                              |                 |                            |                         |                        |
| MAPI4       | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> | Low             |                            |                         |                        |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                              |                 |                            |                         |                        |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                    |                 |                            |                         |                        |
| HEOB        | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                            |                 |                            |                         |                        |
| HEPU12      | <i>Hedeoma pulcherrima</i>                                                        | <i>Hedeoma pulcherrima</i>                             |                 |                            |                         |                        |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>         |                 |                            |                         |                        |
| HYHO        | <i>Hymenoxys hoopesii</i>                                                         | <i>Helenium hoopesii</i>                               |                 |                            |                         |                        |
| HEQU2       | <i>Helianthella quinquenervis</i>                                                 | <i>Helianthella quinquenervis</i>                      | Medium          |                            |                         |                        |
| HEAN3       | <i>Helianthus annuus</i>                                                          | <i>Helianthus annuus</i>                               | Low             | Medium                     | Medium                  | Medium                 |
| HEAR8       | <i>Helianthus arizonensis</i>                                                     | <i>Helianthus arizonensis</i>                          |                 |                            |                         |                        |



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| HEPE        | <i>Helianthus petiolaris</i>                             | <i>Helianthus petiolaris</i>                              |                 |                            |                         |                        |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i> | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i>    | Medium          |                            |                         |                        |
| HEMA80      | <i>Heracleum maximum</i>                                 | <i>Heracleum lanatum</i>                                  |                 |                            |                         |                        |
| HEPA11      | <i>Heuchera parvifolia</i>                               | <i>Heuchera parvifolia</i>                                |                 |                            |                         |                        |
| HICA4       | <i>Hieracium cameum</i>                                  | <i>Hieracium cameum</i>                                   |                 |                            |                         |                        |
| HIFE        | <i>Hieracium fendleri</i>                                | <i>Hieracium fendleri</i>                                 |                 |                            |                         |                        |
| HIOD        | <i>Hierochloe odorata</i>                                | <i>Hierochloe odorata</i>                                 |                 |                            |                         |                        |
| PLJA        | <i>Pleuraphis jamesii</i>                                | <i>Hilaria jamesii</i>                                    | High            | High                       | Low                     | Medium                 |
| HODU        | <i>Holodiscus dumosus</i>                                | <i>Holodiscus dumosus</i>                                 | Medium          |                            |                         |                        |
| HOBR2       | <i>Hordeum brachyantherum</i>                            | <i>Hordeum brachyantherum</i>                             |                 |                            |                         |                        |
| HOJU        | <i>Hordeum jubatum</i>                                   | <i>Hordeum jubatum</i>                                    | Medium          |                            |                         |                        |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>            | <i>Humulus americanus</i>                                 |                 |                            |                         |                        |
| HYFE        | <i>Hydrophyllum fendleri</i>                             | <i>Hydrophyllum fendleri</i>                              |                 |                            |                         |                        |
| HYFI        | <i>Hymenopappus filifolius</i>                           | <i>Hymenopappus filifolius</i>                            |                 |                            |                         |                        |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i>    | <i>Hymenopappus flavescens</i> var. <i>canotomentosus</i> |                 |                            |                         |                        |
| HYNE        | <i>Hymenopappus newberryi</i>                            | <i>Hymenopappus newberryi</i>                             |                 |                            |                         |                        |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                          | <i>Hymenopappus tenuifolius</i>                           |                 |                            |                         |                        |
| TECA2       | <i>Tetradymia canescens</i>                              | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>              |                 |                            |                         |                        |
| TEACA       | <i>Tetraneuris acaulis</i> var. <i>arizonica</i>         | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>            |                 |                            |                         |                        |
| TEACN       | <i>Tetraneuris acaulis</i> var. <i>nana</i>              | <i>Hymenoxys argentea</i>                                 |                 |                            |                         |                        |
| TEBR        | <i>Tetraneuris brandegei</i>                             | <i>Hymenoxys brandegei</i>                                |                 |                            |                         |                        |
| TEIV        | <i>Tetraneuris ivesiana</i>                              | <i>Hymenoxys ivesiana</i>                                 |                 |                            |                         |                        |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>     | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>      |                 |                            |                         |                        |
| HYNI        | <i>Hyoscyamus niger</i>                                  | <i>Hyoscyamus niger</i>                                   |                 |                            |                         |                        |
| HYFO4       | <i>Hypericum formosum</i>                                | <i>Hypericum formosum</i>                                 |                 |                            |                         |                        |
| IPCO3       | <i>Ipomoea coccinea</i>                                  | <i>Ipomoea coccinea</i>                                   |                 |                            |                         |                        |
| IPHE        | <i>Ipomoea hederacea</i>                                 | <i>Ipomoea hederacea</i>                                  |                 |                            |                         |                        |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>         | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>        | Medium          |                            |                         |                        |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>        | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>           |                 |                            |                         |                        |
| IPLA2       | <i>Ipomopsis laxiflora</i>                               | <i>Ipomopsis laxiflora</i>                                |                 |                            |                         |                        |
| IPL02       | <i>Ipomopsis longiflora</i>                              | <i>Ipomopsis longiflora</i>                               |                 |                            |                         |                        |
| IPMU3       | <i>Ipomopsis multiflora</i>                              | <i>Ipomopsis multiflora</i>                               |                 |                            |                         |                        |
| IPPU4       | <i>Ipomopsis pumila</i>                                  | <i>Ipomopsis pumila</i>                                   |                 |                            |                         |                        |
| IRMI        | <i>Iris missouriensis</i>                                | <i>Iris missouriensis</i>                                 |                 |                            |                         |                        |
| IVAX        | <i>Iva axillaris</i>                                     | <i>Iva axillaris</i>                                      | Low             |                            |                         |                        |
| IVXA        | <i>Iva xanthifolia</i>                                   | <i>Iva xanthifolia</i>                                    |                 |                            |                         |                        |
| JAAM        | <i>Jamesia americana</i>                                 | <i>Jamesia americana</i>                                  |                 |                            |                         |                        |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>              | <i>Juncus balticus</i> var. <i>montanus</i>               | Medium          |                            |                         |                        |
| JUBU        | <i>Juncus bufonius</i>                                   | <i>Juncus bufonius</i>                                    |                 |                            |                         |                        |

# REVEGETATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                        | Martin and Hutchins (1980)                        | Erosion Control | Establishment Requirements | Short-term Revegetation | Long-term Revegetation |
|-------------|---------------------------------------------------------|---------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| JUCO2       | <i>Juncus confusus</i>                                  | <i>Juncus confusus</i>                            |                 |                            |                         |                        |
| JUDR        | <i>Juncus drummondii</i>                                | <i>Juncus drummondii</i>                          |                 |                            |                         |                        |
| JUIN2       | <i>Juncus interior</i>                                  | <i>Juncus interior</i>                            |                 |                            |                         |                        |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>       | <i>Juncus longistylis</i> var. <i>longistylis</i> |                 |                            |                         |                        |
| JUMA4       | <i>Juncus marginatus</i>                                | <i>Juncus marginatus</i>                          |                 |                            |                         |                        |
| JUME4       | <i>Juncus mexicanus</i>                                 | <i>Juncus mexicanus</i>                           |                 |                            |                         |                        |
| JUTE        | <i>Juncus tenuis</i>                                    | <i>Juncus tenuis</i>                              |                 |                            |                         |                        |
| JUTO        | <i>Juncus torreyi</i>                                   | <i>Juncus torreyi</i>                             |                 |                            |                         |                        |
| JUXI        | <i>Juncus xiphioides</i>                                | <i>Juncus xiphioides</i>                          |                 |                            |                         |                        |
| JUCO6       | <i>Juniperus communis</i>                               | <i>Juniperus communis</i>                         | High            |                            |                         |                        |
| JUDE2       | <i>Juniperus deppeana</i>                               | <i>Juniperus deppeana</i>                         |                 |                            |                         |                        |
| JUMO        | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                       | Medium          |                            |                         |                        |
| JUSC2       | <i>Juniperus scopulorum</i>                             | <i>Juniperus scopulorum</i>                       | Medium          | Medium                     | Low                     | Medium                 |
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>                  |                 |                            |                         |                        |
| KOSC        | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                            | Low             |                            |                         |                        |
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                          | Low             |                            |                         |                        |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                             |                 |                            |                         |                        |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                         |                 |                            |                         |                        |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                         |                 |                            |                         |                        |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                       |                 |                            |                         |                        |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                        |                 |                            |                         |                        |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                          |                 |                            |                         |                        |
| LASE        | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                           | Low             |                            |                         |                        |
| LABI        | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                            |                 |                            |                         |                        |
| LASQ        | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                           |                 |                            |                         |                        |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                          | Low             |                            |                         |                        |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                             |                 |                            |                         |                        |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus arizonicus</i>                        |                 |                            |                         |                        |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus leucanthus</i>                        | Medium          |                            |                         |                        |
| LEOR        | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                          |                 |                            |                         |                        |
| LEMI3       | <i>Lemna minor</i>                                      | <i>Lemna minor</i>                                |                 |                            |                         |                        |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>           | <i>Lepidium medium</i> var. <i>pubescens</i>      |                 |                            |                         |                        |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>        | <i>Lepidium medium</i> var. <i>medium</i>         |                 |                            |                         |                        |
| LEFE        | <i>Lesquerella fendleri</i>                             | <i>Lesquerella fendleri</i>                       |                 |                            |                         |                        |
| LEIN3       | <i>Lesquerella intermedia</i>                           | <i>Lesquerella intermedia</i>                     |                 |                            |                         |                        |
| LERE3       | <i>Lesquerella rectipes</i>                             | <i>Lesquerella rectipes</i>                       |                 |                            |                         |                        |
| CHER2       | <i>Chaetopappa ericoides</i>                            | <i>Leucelene ericoides</i>                        |                 |                            |                         |                        |
| LIPU        | <i>Liatris punctata</i>                                 | <i>Liatris punctata</i>                           | Low             | Medium                     | Low                     | Medium                 |
| LIPO        | <i>Ligusticum porteri</i>                               | <i>Ligusticum porteri</i>                         | Medium          |                            |                         |                        |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i>        | <i>Lilium umbellatum</i>                          |                 |                            |                         |                        |

# REVEGETATION CON'T

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|-------------|--------------------------------------------------------------------------|---------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| LIAQ        | <i>Limosella aquatica</i>                                                | <i>Limosella aquatica</i>                         |                 |                            |                         |                        |
| LIVU2       | <i>Linaria vulgaris</i>                                                  | <i>Linaria vulgaris</i>                           |                 |                            |                         |                        |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>                               | <i>Linum aristatum</i> var. <i>australe</i>       |                 |                            |                         |                        |
| LILE3       | <i>Linum lewisii</i>                                                     | <i>Linum lewisii</i>                              | Low             | Medium                     | Low                     | Medium                 |
| LINE        | <i>Linum neomexicanum</i>                                                | <i>Linum neomexicana</i>                          |                 |                            |                         |                        |
| LIPU4       | <i>Linum puberulum</i>                                                   | <i>Linum puberulum</i>                            |                 |                            |                         |                        |
| LIRI        | <i>Linum rigidum</i>                                                     | <i>Linum rigidum</i> "complex"                    |                 |                            |                         |                        |
| LICO7       | <i>Lithospermum cobrense</i>                                             | <i>Lithospermum cobrense</i>                      |                 |                            |                         |                        |
| LIIN2       | <i>Lithospermum incisum</i>                                              | <i>Lithospermum incisum</i>                       |                 |                            |                         |                        |
| LIMU3       | <i>Lithospermum multiflorum</i>                                          | <i>Lithospermum multiflorum</i>                   |                 |                            |                         |                        |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>                           | <i>Lobelia cardinalis</i> subsp. <i>graminae</i>  |                 |                            |                         |                        |
| LOPE        | <i>Lolium perenne</i>                                                    | <i>Lolium perenne</i>                             |                 |                            |                         |                        |
| LOIN5       | <i>Lonicera involucrata</i>                                              | <i>Lonicera involucrata</i>                       | Medium          |                            |                         |                        |
| LOWR        | <i>Lotus wrightii</i>                                                    | <i>Lotus wrightii</i>                             |                 |                            |                         |                        |
| LUAL5       | <i>Lupinus X alpestris</i>                                               | <i>Lupinus alpestris</i>                          |                 |                            |                         |                        |
| LUAM        | <i>Lupinus ammophilus</i>                                                | <i>Lupinus ammophilus</i>                         |                 |                            |                         |                        |
| LUAR3       | <i>Lupinus argenteus</i>                                                 | <i>Lupinus argenteus</i>                          | Medium          |                            |                         |                        |
| LUBR2       | <i>Lupinus brevicaulis</i>                                               | <i>Lupinus brevicaulis</i>                        |                 |                            |                         |                        |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                          | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> | Medium          |                            |                         |                        |
| LUKI        | <i>Lupinus kingii</i>                                                    | <i>Lupinus kingii</i>                             |                 |                            |                         |                        |
| LUPU        | <i>Lupinus pusillus</i>                                                  | <i>Lupinus pusillus</i>                           | Low             |                            |                         |                        |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>                         | <i>Lupinus rubricaulis</i>                        |                 |                            |                         |                        |
| LUPA4       | <i>Luzula parviflora</i>                                                 | <i>Luzula parviflora</i>                          |                 |                            |                         |                        |
| LYPA        | <i>Lycium pallidum</i>                                                   | <i>Lycium pallidum</i>                            |                 |                            |                         |                        |
| LYAM        | <i>Lycopus americanus</i>                                                | <i>Lycopus americanus</i>                         |                 |                            |                         |                        |
| LYPH        | <i>Lycurus phleoides</i>                                                 | <i>Lycurus phleoides</i>                          |                 |                            |                         |                        |
| PSAS2       | <i>Psilactis asteroides</i>                                              | <i>Machaeranthera amplifolia</i>                  |                 |                            |                         |                        |
| MABI        | <i>Machaeranthera bigelovii</i>                                          | <i>Machaeranthera bigelovii</i>                   | Medium          | Medium                     | Low                     | Medium                 |
| MACA2       | <i>Machaeranthera canescens</i>                                          | <i>Machaeranthera canescens</i>                   |                 |                            |                         |                        |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                    |                 |                            |                         |                        |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>               | Low             |                            |                         |                        |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                   |                 |                            |                         |                        |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                       |                 |                            |                         |                        |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                             |                 |                            |                         |                        |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                            |                 |                            |                         |                        |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                           |                 |                            |                         |                        |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                       |                 |                            |                         |                        |
| MAVU        | <i>Marrubium vulgare</i>                                                 | <i>Marrubium vulgare</i>                          |                 |                            |                         |                        |

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|-------------|------------------------------------------------------------------------|----------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                     | <i>Maurandya antirrhiniflora</i>                   |                 |                            |                         |                        |
| MELU        | <i>Medicago lupulina</i>                                               | <i>Medicago lupulina</i>                           |                 |                            |                         |                        |
| MESA        | <i>Medicago sativa</i>                                                 | <i>Medicago sativa</i>                             | High            | Medium                     | High                    | Medium                 |
| MELE2       | <i>Melampodium leucanthum</i>                                          | <i>Melampodium leucanthum</i>                      |                 |                            |                         |                        |
| MEPO        | <i>Melica porteri</i>                                                  | <i>Melica porteri</i>                              |                 |                            |                         |                        |
| MEOF        | <i>Melilotus officinalis</i>                                           | <i>Melilotus albus</i>                             | Medium          | Low                        | High                    | Medium                 |
| MEIN2       | <i>Melilotus indicus</i>                                               | <i>Melilotus indicus</i>                           |                 |                            |                         |                        |
| MEOF        | <i>Melilotus officinalis</i>                                           | <i>Melilotus officinalis</i>                       | Medium          | Low                        | High                    | Low                    |
| MESC        | <i>Menodora scabra</i>                                                 | <i>Menodora scabra</i>                             |                 |                            |                         |                        |
| MEAR4       | <i>Mentha arvensis</i>                                                 | <i>Mentha arvensis</i>                             |                 |                            |                         |                        |
| MEAL6       | <i>Mentzelia albicaulis</i>                                            | <i>Mentzelia albicaulis</i>                        | Low             |                            |                         |                        |
| MELA        | <i>Mentzelia laciniata</i>                                             | <i>Mentzelia laciniata</i>                         |                 |                            |                         |                        |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>                              | <i>Mentzelia nuda</i> var. <i>stricta</i>          |                 |                            |                         |                        |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>                             | <i>Mentzelia pumila</i> var. <i>integra</i>        |                 |                            |                         |                        |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>                        | <i>Mentzelia pumila</i> var. <i>multiflora</i>     |                 |                            |                         |                        |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                     | <i>Mentzelia pumila</i> var. <i>pumila</i>         |                 |                            |                         |                        |
| MERU        | <i>Mentzelia rusbyi</i>                                                | <i>Mentzelia rusbyi</i>                            |                 |                            |                         |                        |
| MEBR        | <i>Mertensia brevistyla</i>                                            | <i>Mertensia brevistyla</i>                        |                 |                            |                         |                        |
| MEFR2       | <i>Mertensia franciscana</i>                                           | <i>Mertensia franciscana</i>                       |                 |                            |                         |                        |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>navalis</i>                        | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   |                 |                            |                         |                        |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                     | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | Medium          |                            |                         |                        |
| URLI2       | <i>Uropappus linearifolius</i>                                         | <i>Microseris linearifolia</i>                     |                 |                            |                         |                        |
|             |                                                                        | <i>Microseris minimus</i>                          |                 |                            |                         |                        |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                             | <i>Microsteris gracilis</i>                        |                 |                            |                         |                        |
| MIFL2       | <i>Mimulus floribundus</i>                                             | <i>Mimulus floribundus</i>                         |                 |                            |                         |                        |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                           | <i>Mimulus glabratus</i> var. <i>fremontii</i>     |                 |                            |                         |                        |
| MIGU        | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                            |                 |                            |                         |                        |
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                          |                 |                            |                         |                        |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                        |                 |                            |                         |                        |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                      |                 |                            |                         |                        |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                        |                 |                            |                         |                        |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                        |                 |                            |                         |                        |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                           |                 |                            |                         |                        |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                        |                 |                            |                         |                        |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                        |                 |                            |                         |                        |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                    | Medium          |                            |                         |                        |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                     |                 |                            |                         |                        |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                       |                 |                            |                         |                        |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                        | High            |                            |                         |                        |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                     |                 |                            |                         |                        |

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|-------------|-----------------------------------------------------|----------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| MUPO2       | <i>Muhlenbergia porteri</i>                         | <i>Muhlenbergia porteri</i>                        |                 |                            |                         |                        |
| MUPE3       | <i>Muhlenbergia peruviana</i>                       | <i>Muhlenbergia pulcherrima</i>                    |                 |                            |                         |                        |
| MURA        | <i>Muhlenbergia racemosa</i>                        | <i>Muhlenbergia racemosa</i>                       | Medium          |                            |                         |                        |
| MURI2       | <i>Muhlenbergia rigens</i>                          | <i>Muhlenbergia rigens</i>                         |                 |                            |                         |                        |
| MUTO2       | <i>Muhlenbergia torreyi</i>                         | <i>Muhlenbergia torreyi</i>                        | Low             |                            |                         |                        |
| MURA4       | <i>Muhlenbergia ramulosa</i>                        | <i>Muhlenbergia wolfii</i>                         |                 |                            |                         |                        |
| MUWR        | <i>Muhlenbergia wrightii</i>                        | <i>Muhlenbergia wrightii</i>                       |                 |                            |                         |                        |
| MOSQ        | <i>Monroa squarrosa</i>                             | <i>Munroa squarrosa</i>                            |                 |                            |                         |                        |
|             |                                                     | <i>Myosurus minimus</i>                            |                 |                            |                         |                        |
| NADI        | <i>Nama dichotomum</i>                              | <i>Nama dichotomum</i>                             |                 |                            |                         |                        |
| NAHI        | <i>Nama hispidum</i>                                | <i>Nama hispidum</i> var. <i>hispidum</i>          |                 |                            |                         |                        |
| NECA2       | <i>Nepeta cataria</i>                               | <i>Nepeta cataria</i>                              |                 |                            |                         |                        |
| NIAT        | <i>Nicotiana attenuata</i>                          | <i>Nictotiana attenuata</i>                        |                 |                            |                         |                        |
| NOMI        | <i>Nolina microcarpa</i>                            | <i>Nolina microcarpa</i>                           |                 |                            |                         |                        |
| NOTHO       | <i>Notholaena</i>                                   | <i>Notholaena</i> spp.                             |                 |                            |                         |                        |
| NOST        | <i>Notholaena standleyi</i>                         | <i>Notholaena standleyi</i>                        |                 |                            |                         |                        |
| OEAL        | <i>Oenothera albicaulis</i>                         | <i>Oenothera albicaulis</i>                        |                 |                            |                         |                        |
| OECE2       | <i>Oenothera cespitosa</i>                          | <i>Oenothera caespitosa</i>                        | Low             |                            |                         |                        |
| OCEM3       | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i> | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>   |                 |                            |                         |                        |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>    | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  |                 |                            |                         |                        |
| OECO2       | <i>Oenothera coronopifolia</i>                      | <i>Oenothera coronopifolia</i>                     |                 |                            |                         |                        |
| OEFL        | <i>Oenothera flava</i>                              | <i>Oenothera flava</i>                             |                 |                            |                         |                        |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>          | <i>Oenothera hookeri</i>                           |                 |                            |                         |                        |
| OELA        | <i>Oenothera laciniata</i>                          | <i>Oenothera laciniata</i> var. <i>laciniata</i>   |                 |                            |                         |                        |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>        | <i>Oenothera pallida</i> subsp. <i>pallida</i>     |                 |                            |                         |                        |
| OEPR        | <i>Oenothera primiveris</i>                         | <i>Oenothera primiveris</i>                        |                 |                            |                         |                        |
| OPCL        | <i>Opuntia clavata</i>                              | <i>Opuntia clavata</i>                             |                 |                            |                         |                        |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>        | <i>Opuntia erinacea</i> var. <i>erinacea</i>       |                 |                            |                         |                        |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>       | <i>Opuntia erinacea</i> var. <i>utahensis</i>      |                 |                            |                         |                        |
| OPIM        | <i>Opuntia imbricata</i>                            | <i>Opuntia imbricata</i>                           | Low             |                            |                         |                        |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>    | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   |                 |                            |                         |                        |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>  | <i>Opuntia phaeacantha</i> var. <i>discata</i>     |                 |                            |                         |                        |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>  | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> |                 |                            |                         |                        |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>  | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | Medium          |                            |                         |                        |
| ORFA        | <i>Orobanche fasciculata</i>                        | <i>Orobanche fasciculata</i> var. <i>lutea</i>     |                 |                            |                         |                        |
| ORLU        | <i>Orobanche ludoviciana</i>                        | <i>Orobanche ludoviciana</i>                       |                 |                            |                         |                        |
| ORLUM       | <i>Orobanche ludoviciana</i> ssp. <i>multiflora</i> | <i>Orobanche multiflora</i>                        |                 |                            |                         |                        |
| ORLU2       | <i>Orthocarpus luteus</i>                           | <i>Orthocarpus luteus</i>                          |                 |                            |                         |                        |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                    | <i>Orthocarpus purpureo-albus</i>                  |                 |                            |                         |                        |
| ORAS        | <i>Oryzopsis asperifolia</i>                        | <i>Oryzopsis asperifolia</i>                       |                 |                            |                         |                        |

# REVEGETATION CON'T

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|-------------|-------------------------------------------------------------|----------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| ACHY        | <i>Achnatherum hymenoides</i>                               | <i>Oryzopsis hymenoides</i>                              | Medium          | High                       | Medium                  | High                   |
| PIM17       | <i>Piptatherum micranthum</i>                               | <i>Oryzopsis micrantha</i>                               |                 |                            |                         |                        |
| OSDE        | <i>Osmorhiza depauperata</i>                                | <i>Osmorhiza obtusa</i>                                  |                 |                            |                         |                        |
| OXAL2       | <i>Oxalis alpina</i>                                        | <i>Oxalis metcalfei</i>                                  |                 |                            |                         |                        |
| OXVI        | <i>Oxalis violacea</i>                                      | <i>Oxalis violacea</i>                                   |                 |                            |                         |                        |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                                |                 |                            |                         |                        |
| MIL13       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i>           |                 |                            |                         |                        |
| OXFE        | <i>Oxypolis fendleri</i>                                    | <i>Oxypolis fendleri</i>                                 |                 |                            |                         |                        |
| OXLA3       | <i>Oxytropis lambertii</i>                                  | <i>Oxytropis lambertii</i>                               |                 |                            |                         |                        |
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                             |                 |                            |                         |                        |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                                  |                 |                            |                         |                        |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i>           |                 |                            |                         |                        |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                                    |                 |                            |                         |                        |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                                   |                 |                            |                         |                        |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                                 |                 |                            |                         |                        |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                                   |                 |                            |                         |                        |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                             |                 |                            |                         |                        |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                              |                 |                            |                         |                        |
| PAV12       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                                  | High            | Medium                     | Medium                  | High                   |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                                |                 |                            |                         |                        |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                            |                 |                            |                         |                        |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                               |                 |                            |                         |                        |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                                    |                 |                            |                         |                        |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                                 |                 |                            |                         |                        |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                         |                 |                            |                         |                        |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                              |                 |                            |                         |                        |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                                  |                 |                            |                         |                        |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                                 |                 |                            |                         |                        |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                            |                 |                            |                         |                        |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>          |                 |                            |                         |                        |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                                 |                 |                            |                         |                        |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                                |                 |                            |                         |                        |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                                 |                 |                            |                         |                        |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                                  |                 |                            |                         |                        |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>      | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> |                 |                            |                         |                        |
| PEOL        | <i>Penstemon oliganthus</i>                                 | <i>Penstemon oliganthus</i>                              |                 |                            |                         |                        |
| PERY        | <i>Penstemon rydbergii</i>                                  | <i>Penstemon rydbergii</i>                               |                 |                            |                         |                        |
| PESE11      | <i>Penstemon secundiflorus</i>                              | <i>Penstemon secundiflorus</i>                           |                 |                            |                         |                        |
| PEVI4       | <i>Penstemon virgatus</i>                                   | <i>Penstemon virgatus</i>                                |                 |                            |                         |                        |
| PEWH        | <i>Penstemon whippleanus</i>                                | <i>Penstemon whippleanus</i>                             |                 |                            |                         |                        |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| PECA10      | <i>Pericome caudata</i>                                   | <i>Pericome caudata</i>                                   |                 |                            |                         |                        |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                  | <i>Petalostemum candidum</i>                              |                 |                            |                         |                        |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                | <i>Petalostemum compactum</i>                             |                 |                            |                         |                        |
| DAEX2       | <i>Dalea exigua</i>                                       | <i>Petalostemum exile</i>                                 |                 |                            |                         |                        |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                | <i>Petalostemum purpureum</i>                             |                 |                            |                         |                        |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                  | <i>Petalostemum villosum</i>                              |                 |                            |                         |                        |
| PHCO        | <i>Phacelia coerulea</i>                                  | <i>Phacelia coerulea</i>                                  |                 |                            |                         |                        |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>           | <i>Phacelia corrugata</i>                                 |                 |                            |                         |                        |
| PHHE2       | <i>Phacelia heterophylla</i>                              | <i>Phacelia heterophylla</i>                              |                 |                            |                         |                        |
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              |                 |                            |                         |                        |
| PHEG        | <i>Phacelia egena</i>                                     | <i>Phacelia magellanica</i>                               |                 |                            |                         |                        |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       |                 |                            |                         |                        |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            |                 |                            |                         |                        |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              |                 |                            |                         |                        |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> |                 |                            |                         |                        |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     | Medium          |                            |                         |                        |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    | Medium          | Medium                     | High                    | Medium                 |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   |                 |                            |                         |                        |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             |                 |                            |                         |                        |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                |                 |                            |                         |                        |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           |                 |                            |                         |                        |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        |                 |                            |                         |                        |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 |                 |                            |                         |                        |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               | Medium          |                            |                         |                        |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | High            | Medium                     | Low                     | High                   |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | Medium          | Medium                     | Low                     | Medium                 |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | Medium          | High                       | Low                     | Medium                 |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     | Medium          |                            |                         |                        |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | Medium          | Medium                     | Medium                  | High                   |
| PLAR2       | <i>Plantago argyraea</i>                                  | <i>Plantago argyraea</i>                                  |                 |                            |                         |                        |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     |                 |                            |                         |                        |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   |                 |                            |                         |                        |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          |                 |                            |                         |                        |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      |                 |                            |                         |                        |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      | High            | Medium                     | Medium                  | Medium                 |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    | High            |                            |                         |                        |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       |                 |                            |                         |                        |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    |                 |                            |                         |                        |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     | Medium          |                            |                         |                        |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      |                 |                            |                         |                        |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    |                 |                            |                         |                        |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | High            | Low                        | High                    | Medium                 |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             |                 |                            |                         |                        |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | Low             |                            |                         |                        |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        |                 |                            |                         |                        |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                |                 |                            |                         |                        |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             | Medium          |                            |                         |                        |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              |                 |                            |                         |                        |
| PODO4       | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                |                 |                            |                         |                        |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>          | <i>Polygonum montanum</i>                                 |                 |                            |                         |                        |
| POPE3       | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                               |                 |                            |                         |                        |
| PORA3       | <i>Polygonum ramosissimum</i>                             | <i>Polygonum ramosissimum</i>                             |                 |                            |                         |                        |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i>         | <i>Polygonum sawatchense</i>                              |                 |                            |                         |                        |
| POMO5       | <i>Polypogon monspeliensis</i>                            | <i>Polypogon monspeliensis</i>                            |                 |                            |                         |                        |
| POAN3       | <i>Populus angustifolia</i>                               | <i>Populus angustifolia</i>                               | Medium          | Medium                     |                         | High                   |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>            | <i>Populus fremontii</i> var. <i>wislizenii</i>           | Medium          |                            |                         |                        |
| POTR5       | <i>Populus tremuloides</i>                                | <i>Populus tremuloides</i> var. <i>aurea</i>              | Medium          | High                       | Medium                  | High                   |
| POOL        | <i>Portulaca oleracea</i>                                 | <i>Portulaca oleracea</i>                                 |                 |                            |                         |                        |
| ARAN7       | <i>Argentina anserina</i>                                 | <i>Potentilla anserina</i>                                | Medium          |                            |                         |                        |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>          | <i>Potentilla arguta</i> subsp. <i>convallaria</i>        |                 |                            |                         |                        |
| POCO13      | <i>Potentilla concinna</i>                                | <i>Potentilla concinna</i>                                |                 |                            |                         |                        |
| POCR4       | <i>Potentilla crinita</i>                                 | <i>Potentilla crinita</i>                                 |                 |                            |                         |                        |
| PEFL15      | <i>Pentaphylloides floribunda</i>                         | <i>Potentilla fruticosa</i>                               | Medium          | Medium                     | Medium                  | Medium                 |
| POHI6       | <i>Potentilla hippiana</i>                                | <i>Potentilla hippiana</i>                                |                 |                            |                         |                        |
| PONO3       | <i>Potentilla norvegica</i>                               | <i>Potentilla norvegica</i>                               |                 |                            |                         |                        |
| POPE8       | <i>Potentilla pennsylvanica</i>                           | <i>Potentilla pennsylvanica</i>                           |                 |                            |                         |                        |
| POPU9       | <i>Potentilla pulcherrima</i>                             | <i>Potentilla pulcherrima</i>                             |                 |                            |                         |                        |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>           | <i>Potentilla thurberi</i> var. <i>thurberi</i>           |                 |                            |                         |                        |
| PRRU        | <i>Primula rusbyi</i>                                     | <i>Primula rusbyi</i>                                     |                 |                            |                         |                        |
| PRVU        | <i>Prunella vulgaris</i>                                  | <i>Prunella vulgaris</i>                                  |                 |                            |                         |                        |
| PRAM        | <i>Prunus americana</i>                                   | <i>Prunus americana</i>                                   | Medium          | Medium                     | Low                     | High                   |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>           | <i>Prunus emarginata</i> var. <i>emarginata</i>           |                 |                            |                         |                        |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          | Medium          | Medium                     | Low                     | Medium                 |
| PSMO        | <i>Pseudocymopterus montanus</i>                          | <i>Pseudocymopterus montanus</i>                          |                 |                            |                         |                        |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | High            |                            |                         |                        |
| PSTA        | <i>Psilotrophe tagetina</i>                               | <i>Psilotrophe tagetina</i>                               |                 |                            |                         |                        |
| PEHYH       | <i>Pedimelum hypogaeum</i> var. <i>hypogaeum</i>          | <i>Psoralea hypogaea</i>                                  |                 |                            |                         |                        |
| PSLA3       | <i>Psoralea lanceolatum</i>                               | <i>Psoralea lanceolata</i>                                | High            |                            |                         |                        |
| PSTE5       | <i>Psoralea tenuiflorum</i>                               | <i>Psoralea tenuiflora</i>                                | Medium          |                            |                         |                        |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>         | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>         |                 |                            |                         |                        |



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| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>          | <i>Pteridium aquilinum</i> var. <i>pubescens</i>      |                 |                            |                         |                        |
| PTAN2       | <i>Pterospora andromedea</i>                              | <i>Pterospora andromedea</i>                          |                 |                            |                         |                        |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>            | <i>Pulsatilla ludoviciana</i>                         |                 |                            |                         |                        |
| PUTR2       | <i>Purshia tridentata</i>                                 | <i>Purshia tridentata</i>                             | Medium          | High                       | Low                     | High                   |
| PYAS        | <i>Pyrola asarifolia</i>                                  | <i>Pyrola asarifolia</i>                              |                 |                            |                         |                        |
| PYCH        | <i>Pyrola chlorantha</i>                                  | <i>Pyrola chlorantha</i>                              |                 |                            |                         |                        |
| PYEL        | <i>Pyrola elliptica</i>                                   | <i>Pyrola elliptica</i>                               |                 |                            |                         |                        |
| PYMI        | <i>Pyrola minor</i>                                       | <i>Pyrola minor</i>                                   |                 |                            |                         |                        |
| PYPI2       | <i>Pyrola picta</i>                                       | <i>Pyrola picta</i>                                   |                 |                            |                         |                        |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       |                 |                            |                         |                        |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               | Medium          | High                       | Low                     | Medium                 |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 |                 |                            |                         |                        |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                |                 |                            |                         |                        |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             |                 |                            |                         |                        |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               |                 |                            |                         |                        |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              |                 |                            |                         |                        |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           |                 |                            |                         |                        |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   |                 |                            |                         |                        |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       |                 |                            |                         |                        |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> |                 |                            |                         |                        |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           |                 |                            |                         |                        |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            |                 |                            |                         |                        |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          |                 |                            |                         |                        |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   |                 |                            |                         |                        |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           | Low             | Medium                     | Low                     | Low                    |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               |                 |                            |                         |                        |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    | Medium          | Medium                     | Low                     | Medium                 |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i>        | <i>Rhus radicans</i>                                  |                 |                            |                         |                        |
| RHTR        | <i>Rhus trilobata</i>                                     | <i>Rhus trilobata</i>                                 | Medium          | Medium                     | Low                     | Medium                 |
| RICE        | <i>Ribes cereum</i>                                       | <i>Ribes cereum</i>                                   | Medium          |                            |                         |                        |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>               | <i>Ribes inebrians</i>                                |                 |                            |                         |                        |
| RIIN2       | <i>Ribes inerme</i>                                       | <i>Ribes inerme</i>                                   |                 |                            |                         |                        |
| RILE        | <i>Ribes leptanthum</i>                                   | <i>Ribes leptanthum</i>                               |                 |                            |                         |                        |
| RIMO2       | <i>Ribes montigenum</i>                                   | <i>Ribes montigenum</i>                               |                 |                            |                         |                        |
| RIPI        | <i>Ribes pinetorum</i>                                    | <i>Ribes pinetorum</i>                                |                 |                            |                         |                        |
| RIWO        | <i>Ribes wolfii</i>                                       | <i>Ribes wolfii</i>                                   |                 |                            |                         |                        |
| RONE        | <i>Robinia neomexicana</i>                                | <i>Robinia neomexicana</i>                            |                 |                            |                         |                        |
| ROIS2       | <i>Rorippa islandica</i>                                  | <i>Rorippa islandica</i>                              |                 |                            |                         |                        |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                       | <i>Rorippa nasturtium-aquaticum</i>                   |                 |                            |                         |                        |
| ROTE2       | <i>Rorippa teres</i>                                      | <i>Rorippa obtusa</i>                                 |                 |                            |                         |                        |

# REVEGETATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                       | Martin and Hutchins (1980)                               | Erosion Control | Establishment Requirements | Short-term Revegetation | Long-term Revegetation |
|-------------|--------------------------------------------------------|----------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| ROPF2       | <i>Rorippa palustris</i> ssp. <i>fernaldiana</i>       | <i>Rorippa palustris</i> subsp. <i>glabra</i>            |                 |                            |                         |                        |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>           | <i>Rorippa palustris</i> subsp. <i>hispida</i>           |                 |                            |                         |                        |
| ROSI2       | <i>Rorippa sinuata</i>                                 | <i>Rorippa sinuata</i>                                   |                 |                            |                         |                        |
| ROSY        | <i>Rorippa sylvestris</i>                              | <i>Rorippa sylvestris</i>                                |                 |                            |                         |                        |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>           | <i>Rorippa truncata</i>                                  |                 |                            |                         |                        |
| RONU        | <i>Rosa nutkana</i>                                    | <i>Rosa nutkana</i>                                      |                 |                            |                         |                        |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>arizonica</i>                | Medium          | Medium                     | Low                     | Medium                 |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>fendleri</i>                 |                 |                            |                         |                        |
| RUPA        | <i>Rubus parviflorus</i>                               | <i>Rubus parviflorus</i>                                 | Low             |                            |                         |                        |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>              | <i>Rubus strigosus</i> var. <i>arizonicus</i>            |                 |                            |                         |                        |
| RUHI2       | <i>Rudbeckia hirta</i>                                 | <i>Rudbeckia hirta</i>                                   |                 |                            |                         |                        |
| RULA3       | <i>Rudbeckia laciniata</i>                             | <i>Rudbeckia laciniata</i>                               | Medium          |                            |                         |                        |
| RUAC3       | <i>Rumex acetosella</i>                                | <i>Rumex acetosella</i>                                  |                 |                            |                         |                        |
| RUCR        | <i>Rumex crispus</i>                                   | <i>Rumex crispus</i>                                     | Low             |                            |                         |                        |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex mexicanus</i>                                   |                 |                            |                         |                        |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                |                 |                            |                         |                        |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   |                 |                            |                         |                        |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             |                 |                            |                         |                        |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    | High            |                            |                         |                        |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     |                 |                            |                         |                        |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      | High            |                            |                         |                        |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    |                 |                            |                         |                        |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 | Medium          |                            |                         |                        |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  |                 |                            |                         |                        |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    |                 |                            |                         |                        |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  |                 |                            |                         |                        |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              |                 |                            |                         |                        |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |                 |                            |                         |                        |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                |                 |                            |                         |                        |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             |                 |                            |                         |                        |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           | Medium          | Medium                     | Low                     | Medium                 |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> |                 |                            |                         |                        |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              |                 |                            |                         |                        |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         |                 |                            |                         |                        |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           |                 |                            |                         |                        |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           |                 |                            |                         |                        |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              |                 |                            |                         |                        |
| SECO        | <i>Sedum cockerellii</i>                               | <i>Sedum cockerellii</i>                                 |                 |                            |                         |                        |
| SEAR3       | <i>Senecio arizonicus</i>                              | <i>Senecio arizonicus</i>                                |                 |                            |                         |                        |
| SEAT        | <i>Senecio atratus</i>                                 | <i>Senecio atratus</i>                                   |                 |                            |                         |                        |

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|-------------|-------------------------------------------------------|-----------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>        | <i>Senecio bigelovii</i> var. <i>bigelovii</i>      |                 |                            |                         |                        |
| SECR        | <i>Senecio crassulus</i>                              | <i>Senecio crassulus</i>                            |                 |                            |                         |                        |
| SECY        | <i>Senecio cymbalarioides</i>                         | <i>Senecio cymbalarioides</i>                       |                 |                            |                         |                        |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>        | <i>Senecio douglasii</i> var. <i>longilobus</i>     |                 |                            |                         |                        |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougallii</i>   | <i>Senecio eremophilus</i> var. <i>macdougallii</i> |                 |                            |                         |                        |
| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>                           |                 |                            |                         |                        |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>                             |                 |                            |                         |                        |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                       |                 |                            |                         |                        |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                         |                 |                            |                         |                        |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>                         |                 |                            |                         |                        |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>                          |                 |                            |                         |                        |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>                         |                 |                            |                         |                        |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>                          |                 |                            |                         |                        |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>                         |                 |                            |                         |                        |
| SEWE2       | <i>Senecio wernerifolius</i>                          | <i>Senecio werneriaefolius</i>                      |                 |                            |                         |                        |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                             |                 |                            |                         |                        |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                           |                 |                            |                         |                        |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                            |                 |                            |                         |                        |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                         |                 |                            |                         |                        |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                              |                 |                            |                         |                        |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                             |                 |                            |                         |                        |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                            |                 |                            |                         |                        |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                            |                 |                            |                         |                        |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                              |                 |                            |                         |                        |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                        |                 |                            |                         |                        |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                             |                 |                            |                         |                        |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                        |                 |                            |                         |                        |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                        |                 |                            |                         |                        |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>                        |                 |                            |                         |                        |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystris</i>                             | Low             |                            |                         |                        |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>    | <i>Smilacina racemosa</i>                           |                 |                            |                         |                        |
| MAST4       | <i>Maianthemum stellatum</i>                          | <i>Smilacina stellata</i>                           | Low             |                            |                         |                        |
| SOAM        | <i>Solanum americanum</i>                             | <i>Solanum americanum</i>                           |                 |                            |                         |                        |
| SODO        | <i>Solanum douglasii</i>                              | <i>Solanum douglasii</i>                            |                 |                            |                         |                        |
| SOEL        | <i>Solanum elaeagnifolium</i>                         | <i>Solanum elaeagnifolium</i>                       |                 |                            |                         |                        |
| SOJA        | <i>Solanum jamesii</i>                                | <i>Solanum jamesii</i>                              |                 |                            |                         |                        |
| SOPT3       | <i>Solanum ptychanthum</i>                            | <i>Solanum nigrum</i>                               |                 |                            |                         |                        |
| SORO        | <i>Solanum rostratum</i>                              | <i>Solanum rostratum</i>                            |                 |                            |                         |                        |
| SOSA        | <i>Solanum sarrachoides</i>                           | <i>Solanum sarachoides</i>                          |                 |                            |                         |                        |
| SOTR        | <i>Solanum triflorum</i>                              | <i>Solanum triflorum</i>                            |                 |                            |                         |                        |

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|-------------|-----------------------------------------------------------------|-------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             |                 |                            |                         |                        |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     | Low             |                            |                         |                        |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> |                 |                            |                         |                        |
| SOMO        | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                |                 |                            |                         |                        |
| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          |                 |                            |                         |                        |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          |                 |                            |                         |                        |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               |                 |                            |                         |                        |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            |                 |                            |                         |                        |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           |                 |                            |                         |                        |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    |                 |                            |                         |                        |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         |                 |                            |                         |                        |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  |                 |                            |                         |                        |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              |                 |                            |                         |                        |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            |                 |                            |                         |                        |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             | High            | Medium                     | Medium                  | High                   |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             |                 |                            |                         |                        |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> |                 |                            |                         |                        |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         | Medium          |                            |                         |                        |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      |                 |                            |                         |                        |
| SPIN2       | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             |                 |                            |                         |                        |
| SPIN3       | <i>Sphenopholis intermedia</i>                                  | <i>Sphenopholis intermedia</i>                        |                 |                            |                         |                        |
| SPAI        | <i>Sporobolus airoides</i>                                      | <i>Sporobolus airoides</i>                            | High            | Medium                     | Low                     | High                   |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i>             | <i>Sporobolus asper</i>                               |                 |                            |                         |                        |
| SPCO4       | <i>Sporobolus contractus</i>                                    | <i>Sporobolus contractus</i>                          |                 |                            |                         |                        |
| SPCR        | <i>Sporobolus cryptandrus</i>                                   | <i>Sporobolus cryptandrus</i>                         | Medium          | Medium                     | Medium                  | Medium                 |
| SPNE        | <i>Sporobolus nealleyi</i>                                      | <i>Sporobolus nealleyi</i>                            |                 |                            |                         |                        |
| SPT5        | <i>Sporobolus texanus</i>                                       | <i>Sporobolus texanus</i>                             |                 |                            |                         |                        |
| STPA        | <i>Stachys palustris</i>                                        | <i>Stachys palustris</i>                              |                 |                            |                         |                        |
| STPI        | <i>Stanleya pinnata</i>                                         | <i>Stanleya pinnata</i>                               | Low             |                            |                         |                        |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                                | <i>Stellaria jamesiana</i>                            | Low             |                            |                         |                        |
| STLO        | <i>Stellaria longifolia</i>                                     | <i>Stellaria longifolia</i>                           |                 |                            |                         |                        |
| STLO2       | <i>Stellaria longipes</i>                                       | <i>Stellaria longipes</i>                             |                 |                            |                         |                        |
| STPA4       | <i>Stephanomeria pauciflora</i>                                 | <i>Stephanomeria pauciflora</i>                       |                 |                            |                         |                        |
| STTE2       | <i>Stephanomeria tenuifolia</i>                                 | <i>Stephanomeria tenuifolia</i>                       |                 |                            |                         |                        |
| ACNED       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>                   | <i>Stipa columbiana</i>                               | Medium          |                            |                         |                        |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>                   | <i>Stipa comata</i>                                   | Medium          |                            |                         |                        |
| ACEM4       | <i>Achnatherum eminens</i>                                      | <i>Stipa eminens</i>                                  |                 |                            |                         |                        |
| ACLE9       | <i>Achnatherum lettermanii</i>                                  | <i>Stipa lettermanii</i>                              | Low             |                            |                         |                        |
| HENE5       | <i>Hesperostipa neomexicana</i>                                 | <i>Stipa neomexicana</i>                              |                 |                            |                         |                        |
| ACRO7       | <i>Achnatherum robustum</i>                                     | <i>Stipa robusta</i>                                  |                 |                            |                         |                        |

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|-------------|-------------------------------------------------------------|------------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| STCO6       | <i>Streptanthus cordatus</i>                                | <i>Streptanthus cordatus</i>                               |                 |                            |                         |                        |
| STAM2       | <i>Streptopus amplexifolius</i>                             | <i>Streptopus amplexifolius</i>                            |                 |                            |                         |                        |
| FRSP        | <i>Frasera speciosa</i>                                     | <i>Swertia radiata</i>                                     |                 |                            |                         |                        |
| SYOC        | <i>Symphoricarpos occidentalis</i>                          | <i>Symphoricarpos occidentalis</i>                         | High            |                            |                         |                        |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                            | <i>Symphoricarpos oreophilus</i>                           | High            | Medium                     | Low                     | High                   |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                           | <i>Symphoricarpos rotundifolius</i>                        |                 |                            |                         |                        |
| TAPA3       | <i>Talinum parviflorum</i>                                  | <i>Talinum parviflorum</i>                                 |                 |                            |                         |                        |
| TAGA        | <i>Tamarix gallica</i>                                      | <i>Tamarix gallica</i>                                     |                 |                            |                         |                        |
| TACH2       | <i>Tamarix chinensis</i>                                    | <i>Tamarix pentandra</i>                                   | Medium          | Low                        | Low                     | Medium                 |
| TALA2       | <i>Taraxacum laevigatum</i>                                 | <i>Taraxacum laevigatum</i>                                |                 |                            |                         |                        |
| TAOF        | <i>Taraxacum officinale</i>                                 | <i>Taraxacum officinale</i>                                | Low             | Low                        |                         |                        |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i>                                | Low             |                            |                         |                        |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i> var. <i>inermis</i>            |                 |                            |                         |                        |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>             | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | Medium          |                            |                         |                        |
| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      |                 |                            |                         |                        |
| THME        | <i>Thelesperma megapotamicum</i>                            | <i>Thelesperma megapotamicum</i>                           |                 |                            |                         |                        |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>        | <i>Thelesperma trifidum</i>                                |                 |                            |                         |                        |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i>  | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> |                 |                            |                         |                        |
| THWR        | <i>Thelypodium wrightii</i>                                 | <i>Thelypodium wrightii</i>                                |                 |                            |                         |                        |
| THMO6       | <i>Thermopsis montana</i>                                   | <i>Thermopsis montanum</i>                                 |                 |                            |                         |                        |
| THDI4       | <i>Thermopsis divaricarpa</i>                               | <i>Thermopsis pinetorum</i>                                |                 |                            |                         |                        |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>                | <i>Thlaspi alpestre</i>                                    |                 |                            |                         |                        |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>          | <i>Torreyochloa pauciflora</i>                             |                 |                            |                         |                        |
| TOAN        | <i>Townsendia annua</i>                                     | <i>Townsendia annua</i>                                    |                 |                            |                         |                        |
| TOEX        | <i>Townsendia eximia</i>                                    | <i>Townsendia eximia</i>                                   |                 |                            |                         |                        |
| TOFO        | <i>Townsendia formosa</i>                                   | <i>Townsendia formosa</i>                                  |                 |                            |                         |                        |
| TOIN        | <i>Townsendia incana</i>                                    | <i>Townsendia incana</i>                                   |                 |                            |                         |                        |
| TOEX2       | <i>Townsendia exscapa</i>                                   | <i>Townsendia escapa</i>                                   |                 |                            |                         |                        |
| TRNE        | <i>Tragia nepetifolia</i>                                   | <i>Tragia nepetaefolia</i>                                 |                 |                            |                         |                        |
| TRDU        | <i>Tragopogon dubius</i>                                    | <i>Tragopogon dubius</i>                                   |                 |                            |                         |                        |
| TRPR        | <i>Tragopogon pratensis</i>                                 | <i>Tragopogon pratensis</i>                                |                 |                            |                         |                        |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                               |                 |                            |                         |                        |
| TRTE        | <i>Tribulus terrestris</i>                                  | <i>Tribulus terrestris</i>                                 |                 |                            |                         |                        |
| ERPU8       | <i>Erioneuron pulchellum</i>                                | <i>Tridens pulchellus</i>                                  |                 |                            |                         |                        |
| TRDA2       | <i>Trifolium dasyphyllum</i>                                | <i>Trifolium dasyphyllum</i>                               | High            |                            |                         |                        |
| TRHY        | <i>Trifolium hybridum</i>                                   | <i>Trifolium hybridum</i>                                  | Medium          | Medium                     | Medium                  | Medium                 |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>             | <i>Trifolium lacerum</i>                                   |                 |                            |                         |                        |
| TRPR2       | <i>Trifolium pratense</i>                                   | <i>Trifolium pratense</i>                                  | Medium          | Medium                     | Medium                  | Medium                 |
| TRCA5       | <i>Trifolium campestre</i>                                  | <i>Trifolium procumbens</i>                                |                 |                            |                         |                        |
| TRRE3       | <i>Trifolium repens</i>                                     | <i>Trifolium repens</i>                                    | Medium          | Medium                     | Medium                  | Medium                 |

# REVEGETATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                           | Martin and Hutchins (1980)                           | Erosion Control | Establishment Requirements | Short-term Revegetation | Long-term Revegetation |
|-------------|------------------------------------------------------------|------------------------------------------------------|-----------------|----------------------------|-------------------------|------------------------|
| TRPE4       | <i>Triodanis perfoliata</i>                                | <i>Triodanis perfoliata</i>                          |                 |                            |                         |                        |
| TRMO5       | <i>Trisetum montanum</i>                                   | <i>Trisetum montanum</i>                             |                 |                            |                         |                        |
| TRSP2       | <i>Trisetum spicatum</i>                                   | <i>Trisetum spicatum</i>                             | Medium          |                            |                         |                        |
| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                               | High            |                            |                         |                        |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         |                 |                            |                         |                        |
| URGR        | <i>Urtica gracilentia</i>                                  | <i>Urtica gracilentia</i>                            |                 |                            |                         |                        |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               |                 |                            |                         |                        |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           | Medium          |                            |                         |                        |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           |                 |                            |                         |                        |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    |                 |                            |                         |                        |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         |                 |                            |                         |                        |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             | Low             |                            |                         |                        |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         |                 |                            |                         |                        |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             |                 |                            |                         |                        |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             |                 |                            |                         |                        |
| VEMA        | <i>Verbena macdougallii</i>                                | <i>Verbena macdougallii</i>                          |                 |                            |                         |                        |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              |                 |                            |                         |                        |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> |                 |                            |                         |                        |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            |                 |                            |                         |                        |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             |                 |                            |                         |                        |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     |                 |                            |                         |                        |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        |                 |                            |                         |                        |
| VEWO2       | <i>Veronica wormskejoldii</i>                              | <i>Veronica wormskejoldii</i>                        |                 |                            |                         |                        |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              |                 |                            |                         |                        |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>               | <i>Vicia americana</i> var. <i>americana</i>         | Medium          |                            |                         |                        |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>linearis</i>          |                 |                            |                         |                        |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>             |                 |                            |                         |                        |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>           | <i>Vicia exigua</i>                                  |                 |                            |                         |                        |
| VILE3       | <i>Vicia leucophaea</i>                                    | <i>Vicia leucophaea</i>                              |                 |                            |                         |                        |
| VICO        | <i>Viguiera cordifolia</i>                                 | <i>Viguiera cordifolia</i>                           |                 |                            |                         |                        |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i>        | <i>Viguiera multiflora</i>                           |                 |                            |                         |                        |
| VIAD        | <i>Viola adunca</i>                                        | <i>Viola adunca</i>                                  |                 |                            |                         |                        |
| VICA4       | <i>Viola canadensis</i>                                    | <i>Viola canadensis</i>                              |                 |                            |                         |                        |
| VISO        | <i>Viola sororia</i>                                       | <i>Viola nephrophylla</i>                            |                 |                            |                         |                        |
| VIPE2       | <i>Viola pedatifida</i>                                    | <i>Viola pedatifida</i>                              |                 |                            |                         |                        |
| VIAR2       | <i>Vitis arizonica</i>                                     | <i>Vitis arizonica</i> var. <i>arizonica</i>         |                 |                            |                         |                        |
| VIVU        | <i>Vitis vulpina</i>                                       | <i>Vitis vulpina</i>                                 |                 |                            |                         |                        |
|             |                                                            | <i>Woodsia mexicana</i>                              |                 |                            |                         |                        |
| WOOR        | <i>Woodsia oregana</i>                                     | <i>Woodsia oregana</i>                               |                 |                            |                         |                        |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i>           | <i>Xanthium strumarium</i> var. <i>canadense</i>     |                 |                            |                         |                        |

## REVEGETATION CON'T

| USDA Symbol | USDA NRCS PLANTS          | Martin and Hutchins (1980) | Erosion Control | Establishment Requirements | Short-term Revegetation | Long-term Revegetation |
|-------------|---------------------------|----------------------------|-----------------|----------------------------|-------------------------|------------------------|
| YUAN2       | <i>Yucca angustissima</i> | <i>Yucca angustissima</i>  |                 |                            |                         |                        |
| YUBA        | <i>Yucca baccata</i>      | <i>Yucca baccata</i>       |                 |                            |                         |                        |
| YUGL        | <i>Yucca glauca</i>       | <i>Yucca glauca</i>        | Medium          |                            |                         |                        |
| ZIGR        | <i>Zinnia grandiflora</i> | <i>Zinnia grandiflora</i>  |                 |                            |                         |                        |
| ZIEL2       | <i>Zygadenus elegans</i>  | <i>Zygadenus elegans</i>   |                 |                            |                         |                        |

**Key for heading acronyms and abbreviations:**

USDA Symbol = acronym used in USDA NRCS PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.



## ORIGINS



Canadian Violet



## ORIGINS

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Origin     | Rep Type          | CO <sup>2</sup> Fix | Troph St    | Beg Ant | Anthesis | End Ant   |
|--------------|------------------------------------------------------|-------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        | Native     | Sexual            | C3                  | Autotrophic | April   | May      | May       |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> |            |                   |                     |             |         |          |           |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     | Native     | Sexual            |                     |             |         |          |           |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    |            |                   |                     | Autotrophic |         |          |           |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      |            |                   |                     |             |         |          |           |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| AGLL         | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       | Native     | Sexual            | C3                  | Autotrophic | May     | August   | September |
| AGLL         | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |            |                   |                     | Autotrophic |         |          |           |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    | Native     | Vegetative-Sexual |                     |             |         |          |           |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   | Native     | Vegetative-Sexual |                     | Autotrophic | June    |          | August    |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     | Introduced | Sexual            | C3                  | Autotrophic | June    | July     | August    |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |            |                   |                     |             |         |          |           |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   |            |                   |                     |             |         |          |           |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         | Introduced | Sexual            | C3                  | Autotrophic | June    |          | August    |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        |            |                   |                     |             |         | June     | August    |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            |            |                   |                     |             |         |          |           |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         | Native     | Vegetative-Sexual |                     | Autotrophic | July    |          | August    |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      | Native     | Sexual            |                     | Autotrophic | July    | August   |           |
| AGPE         | <i>Agrostis perennans</i>                            | <i>Agrostis perennans</i>                       | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| AGSC5        | <i>Agrostis scabra</i>                               | <i>Agrostis scabra</i>                          | Native     | Sexual            | C3                  | Autotrophic | July    | August   |           |
| POVI9        | <i>Polypogon viridis</i>                             | <i>Agrostis semiverticillata</i>                | Introduced | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| AGST2        | <i>Agrostis stolonifera</i>                          | <i>Agrostis stolonifera</i>                     | Introduced |                   | C3                  | Autotrophic | June    |          | September |
| AIAL         | <i>Ailanthus altissima</i>                           | <i>Ailanthus altissima</i>                      | Introduced | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |

\* A key for heading acronyms and abbreviations is on the last page of this table.

# ORIGINS CON'T

| USDA Symbol            | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                        | Origin     | Rep Type          | CO <sup>2</sup> Fix | Troph St    | Beg Ant | Anthesis  | End Ant   |
|------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------|------------|-------------------|---------------------|-------------|---------|-----------|-----------|
| ALCEO                  | <i>Allium cernuum</i> var. <i>obtusum</i>                                              | <i>Allium cernuum</i> var. <i>obtusum</i>         | Native     | Vegetative-Sexual | C3                  | Autotrophic | May     | July      | September |
| ALGE                   | <i>Allium geyeri</i>                                                                   | <i>Allium geyeri</i>                              | Native     | Vegetative-Sexual |                     | Autotrophic |         |           |           |
| ALMA4                  | <i>Allium macropetalum</i>                                                             | <i>Allium macropetalum</i>                        | Native     | Vegetative-Sexual |                     | Autotrophic |         |           |           |
| ALTE                   | <i>Allium textile</i>                                                                  | <i>Allium textile</i>                             | Native     | Vegetative-Sexual | C3                  | Autotrophic | May     | June      | August    |
| ALOB2                  | <i>Alnus oblongifolia</i>                                                              | <i>Alnus oblongifolia</i>                         |            |                   |                     |             |         |           |           |
| ALINT                  | <i>Alnus incana</i> ssp. <i>tenuifolia</i>                                             | <i>Alnus tenuifolia</i>                           | Native     | Sexual            |                     | Autotrophic | May     | June      | August    |
| ALAE                   | <i>Alopecurus aequalis</i>                                                             | <i>Alopecurus aequalis</i>                        | Native     | Sexual            | C3                  | Autotrophic |         |           |           |
| ALRO3                  | <i>Alcea rosea</i>                                                                     | <i>Althaea rosea</i>                              | Introduced | Sexual            |                     | Autotrophic |         |           |           |
| AMAL                   | <i>Amaranthus albus</i>                                                                | <i>Amaranthus albus</i>                           | Introduced | Sexual            | C4                  | Autotrophic |         |           |           |
| AMAL;<br>AMBL          | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>                      |            |                   |                     |             |         |           |           |
| AMHY                   | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                        | Native     | Sexual            | C4                  | Autotrophic |         |           |           |
| AMHY2                  | <i>Amaranthus hypochondriacus</i> L.                                                   | <i>Amaranthus leucocarpus</i>                     |            |                   |                     |             |         |           |           |
| AMPA                   | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                         | Native     | Sexual            | C4                  | Autotrophic |         |           |           |
| AMPO2                  | <i>Amaranthus powellii</i> S. Wats.                                                    | <i>Amaranthus powellii</i>                        | Native     | Sexual            | C4                  | Autotrophic |         |           |           |
| AMRE                   | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>                     | Introduced | Sexual            | C4                  | Autotrophic |         |           |           |
| AMAR;<br>AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                         |            |                   |                     |             |         |           |           |
| AMAR2                  | <i>Ambrosia artemisiifolia</i>                                                         | <i>Ambrosia artemisiifolia</i>                    | Introduced | Sexual            | C3                  | Autotrophic | July    | September | October   |
| AMPS                   | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>                      | Introduced | Vegetative-Sexual |                     | Autotrophic | July    | August    | October   |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier bakeri</i>                         |            |                   |                     |             |         |           |           |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier oreophila</i>                      |            |                   |                     |             |         |           |           |
| AMPU5                  | <i>Amelanchier pumila</i>                                                              | <i>Amelanchier polycarpa</i>                      |            |                   |                     |             |         |           |           |
| AMUT                   | <i>Amelanchier utahensis</i>                                                           | <i>Amelanchier utahensis</i>                      | Native     | Sexual            |                     | Autotrophic | April   | June      | July      |
| AMCA6                  | <i>Amorpha canescens</i>                                                               | <i>Amorpha canescens</i>                          | Native     | Sexual            | C3                  | Autotrophic | May     | June      | July      |
| AMFR                   | <i>Amorpha fruticosa</i>                                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i> | Native     | Sexual            |                     | Autotrophic | May     | June      | July      |
| AMNA                   | <i>Amorpha nana</i>                                                                    | <i>Amorpha nana</i>                               | Native     | Sexual            |                     | Autotrophic |         |           |           |
| ANAR                   | <i>Anagallis arvensis</i>                                                              | <i>Anagallis arvensis</i>                         | Native     | Sexual            |                     | Autotrophic |         |           |           |
| ANMA                   | <i>Anaphalis margaritacea</i>                                                          | <i>Anaphalis margaritacea</i>                     | Native     | Vegetative-Sexual |                     | Autotrophic | July    | July      | September |
| BOBAB                  | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>                                  | <i>Andropogon barbinodis</i>                      | Native     | Sexual            | C4                  | Autotrophic |         |           |           |
| ANGE                   | <i>Andropogon gerardii</i>                                                             | <i>Andropogon gerardii</i>                        | Native     | Vegetative-Sexual | C4                  | Autotrophic | July    |           | September |

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| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Origin     | Rep Type          | CO <sup>2</sup> Fix | Troph St    | Beg Ant | Anthesis | End Ant   |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| ANHA        | <i>Andropogon hallii</i>                                      | <i>Andropogon hallii</i>                                      | Native     | Vegetative-Sexual |                     | Autotrophic | July    |          | September |
| BOSA        | <i>Bothriochloa saccharoides</i>                              | <i>Andropogon saccharoides</i>                                | Native     | Sexual            | C4                  | Autotrophic |         |          |           |
| SCSCS2      | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>          | <i>Andropogon scoparius</i>                                   | Native     | Vegetative-Sexual | C4                  | Autotrophic |         |          |           |
| BOSP3       | <i>Bothriochloa springfieldii</i>                             | <i>Andropogon springfieldii</i>                               |            |                   |                     |             |         |          |           |
| BOWR2       | <i>Bothriochloa wrightii</i>                                  | <i>Andropogon wrightii</i>                                    |            |                   |                     |             |         |          |           |
| ANSES4      | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>       | <i>Androsace septentrionalis</i> var. <i>subulifera</i>       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ANCY        | <i>Anemone cylindrica</i>                                     | <i>Anemone cylindrica</i>                                     | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ANPI2       | <i>Angelica pinnata</i>                                       | <i>Angelica pinnata</i>                                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ANCR2       | <i>Anoda cristata</i>                                         | <i>Anoda cristata</i> var. <i>digitata</i>                    | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| ANMA5       | <i>Antennaria marginata</i>                                   | <i>Antennaria marginata</i>                                   |            |                   |                     |             |         |          |           |
| ANPA4       | <i>Antennaria parvifolia</i>                                  | <i>Antennaria parvifolia</i>                                  | Native     | Vegetative-Sexual | C3                  | Autotrophic | May     | June     | August    |
| ANRO2       | <i>Antennaria rosea</i>                                       | <i>Antennaria rosea</i>                                       | Native     | Vegetative-Sexual |                     | Autotrophic | May     | July     | September |
| ANRO3       | <i>Antennaria rosulata</i>                                    | <i>Antennaria rosulata</i>                                    | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               |            |                   |                     |             |         |          |           |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            | Native     | Vegetative-Sexual | C2                  | Autotrophic | May     | July     | August    |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>floribundum</i>                |            |                   |                     |             |         |          |           |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| AQTR        | <i>Aquilegia tritemata</i>                                    | <i>Aquilegia tritemata</i>                                    |            |                   |                     |             |         |          |           |
| ARDI2       | <i>Arabis X divaricarpa</i>                                   | <i>Arabis divaricarpa</i>                                     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ARDR        | <i>Arabis drummondii</i>                                      | <i>Arabis drummondii</i>                                      | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ARGL        | <i>Arabis glabra</i>                                          | <i>Arabis glabra</i>                                          | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                  | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                  | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ARPE2       | <i>Arabis perennans</i>                                       | <i>Arabis perennans</i>                                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ARRA        | <i>Aralia racemosa</i>                                        | <i>Aralia racemosa</i>                                        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ARDI3       | <i>Arceuthobium divaricatum</i>                               | <i>Arceuthobium divaricatum</i>                               | Native     | Sexual            | None                | Parasitic   |         |          |           |
| ARDO        | <i>Arceuthobium douglasii</i>                                 | <i>Arceuthobium douglasii</i>                                 | Native     | Sexual            | None                | Parasitic   |         |          |           |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i>         | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodum</i>       | Native     | Sexual            | None                | Parasitic   |         |          |           |

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| USDA Symbol | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                             | Origin     | Rep Type          | CO <sup>2</sup> Fix | Troph St    | Beg Ant   | Anthesis  | End Ant   |
|-------------|------------------------------------------------------|--------------------------------------------------------|------------|-------------------|---------------------|-------------|-----------|-----------|-----------|
| ARPU5       | <i>Arctostaphylos pungens</i>                        | <i>Arctostaphylos pungens</i>                          | Introduced | Sexual            |                     | Autotrophic |           |           |           |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                       | <i>Arctostaphylos uva-ursi</i>                         | Native     | Vegetative-Sexual | C3                  | Autotrophic | April     | May       | June      |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>        | <i>Arenaria confusa</i>                                |            |                   |                     |             |           |           |           |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>        | <i>Arenaria fendleri</i> var. <i>brevifolia</i>        |            |                   |                     |             |           |           |           |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>      | <i>Arenaria fendleri</i> var. <i>fendleri</i>          | Native     | Sexual            |                     | Autotrophic | May       | July      | August    |
| MOMA3       | <i>Moehringia macrophylla</i>                        | <i>Arenaria macrophylla</i>                            | Native     | Vegetative-Sexual |                     | Autotrophic |           |           |           |
| ARAD        | <i>Aristida adscensionis</i>                         | <i>Aristida adscensionis</i>                           | Native     | Sexual            | C4                  | Autotrophic |           |           |           |
| ARAR6       | <i>Aristida arizonica</i>                            | <i>Aristida arizonica</i>                              | Native     | Sexual            |                     | Autotrophic |           |           |           |
| ARHA3       | <i>Aristida havardii</i>                             | <i>Aristida barbata</i>                                | Introduced | Sexual            |                     | Autotrophic |           |           |           |
| ARDI5       | <i>Aristida divaricata</i>                           | <i>Aristida divaricata</i>                             | Native     | Sexual            |                     | Autotrophic |           |           |           |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>     | <i>Aristida fendleriana</i>                            | Native     | Sexual            | C4                  | Autotrophic | March     |           | September |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>       | <i>Aristida longiseta</i>                              | Native     | Sexual            | C4                  | Autotrophic | March     |           | September |
| ARPU9       | <i>Aristida purpurea</i>                             | <i>Aristida purpurea</i>                               | Native     | Sexual            | C4                  | Autotrophic |           |           |           |
| ARBI3       | <i>Artemisia bigelovii</i>                           | <i>Artemisia bigelovii</i>                             | Native     | Sexual            |                     | Autotrophic | June      | September | September |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>     | <i>Artemisia campestris</i> subsp. <i>pacifica</i>     | Native     | Sexual            | C3                  | Autotrophic |           |           |           |
| ARCA13      | <i>Artemisia cana</i>                                | <i>Artemisia cana</i>                                  | Native     | Sexual            | C3                  | Autotrophic | July      | August    | September |
| ARCA14      | <i>Artemisia carruthii</i>                           | <i>Artemisia carruthii</i>                             | Native     | Sexual            | C3                  | Autotrophic |           |           |           |
| ARDR4       | <i>Artemisia dracunculus</i>                         | <i>Artemisia dracunculus</i>                           | Native     | Vegetative-Sexual |                     | Autotrophic | July      | August    | October   |
| ARFI2       | <i>Artemisia filifolia</i>                           | <i>Artemisia filifolia</i>                             | Native     | Sexual            |                     | Autotrophic | July      | August    | September |
| ARFR3       | <i>Artemisia franserioides</i>                       | <i>Artemisia franserioides</i>                         | Native     | Sexual            |                     | Autotrophic |           |           |           |
| ARFR4       | <i>Artemisia frigida</i>                             | <i>Artemisia frigida</i>                               | Native     | Vegetative-Sexual | C3                  | Autotrophic | July      | August    | October   |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>      | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>      |            |                   |                     |             |           |           |           |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> | Native     | Vegetative-Sexual | C3                  | Autotrophic | July      | August    | October   |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>    |            |                   |                     |             |           |           |           |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>     | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>    |            |                   |                     |             |           |           |           |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>    | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>     |            |                   |                     |             |           |           |           |
| ARTR2       | <i>Artemisia tridentata</i>                          | <i>Artemisia tridentata</i>                            | Native     | Sexual            | C3                  | Autotrophic | September | September | September |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>       | <i>Asclepias asperula</i> subsp. <i>asperula</i>       | Native     | Vegetative-Sexual |                     | Autotrophic |           |           |           |
| ASEN        | <i>Asclepias engelmanniana</i>                       | <i>Asclepias engelmanniana</i>                         | Native     | Sexual            |                     | Autotrophic |           |           |           |
| ASIN14      | <i>Asclepias involucrata</i>                         | <i>Asclepias involucrata</i>                           | Native     | Sexual            |                     | Autotrophic |           |           |           |
| ASMA        | <i>Asclepias macrotis</i>                            | <i>Asclepias macrotis</i>                              | Native     | Sexual            |                     | Autotrophic |           |           |           |
| ASSP        | <i>Asclepias speciosa</i>                            | <i>Asclepias speciosa</i>                              | Native     | Vegetative-Sexual | C3                  | Autotrophic | May       | June      | August    |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| ASSU2       | <i>Asclepias subverticillata</i>                          | <i>Asclepias subverticillata</i>                          | Native     | Vegetative-Sexual |                     | Autotrophic | June    | August   | September |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>            | <i>Asclepias tuberosa</i> subsp <i>terminalis</i>         | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| ASVI        | <i>Asclepias virdiflora</i>                               | <i>Asclepias virdiflora</i>                               | Native     | Sexual            | C3                  | Autotrophic | June    | July     | July      |
| ASOF        | <i>Asparagus officinalis</i>                              | <i>Asparagus officinalis</i>                              | Introduced | Sexual            | C3                  | Autotrophic | May     | May      | July      |
| ASTR2       | <i>Asplenium trichomanes</i>                              | <i>Asplenium trichomanes</i>                              | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| ASER3       | <i>Aster ericoides</i>                                    | <i>Aster ericoides</i>                                    | Native     | Vegetative-Sexual |                     | Autotrophic | July    | August   | September |
| ASFE        | <i>Aster fendleri</i>                                     | <i>Aster fendleri</i>                                     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASFO        | <i>Aster foliaceus</i>                                    | <i>Aster foliaceus</i>                                    | Native     | Vegetative-Sexual |                     | Autotrophic | July    | August   | September |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>              | <i>Aster glaucodes</i> var. <i>glaucodes</i>              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>            | <i>Aster hesperius</i>                                    | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ASLA5       | <i>Aster laevis</i>                                       | <i>Aster laevis</i>                                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASNO        | <i>Aster novae-angliae</i>                                | <i>Aster novae-angliae</i>                                | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| ASOC        | <i>Aster occidentalis</i>                                 | <i>Aster occidentalis</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ALPA14      | <i>Almutaster pauciflorus</i>                             | <i>Aster pauciflorus</i>                                  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASPR2       | <i>Aster praealtus</i>                                    | <i>Aster praealtus</i>                                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASAG2       | <i>Astragalus agrestis</i>                                | <i>Astragalus agrestis</i>                                | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ASAM5       | <i>Astragalus amphioxys</i>                               | <i>Astragalus amphioxys</i>                               | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASBI2       | <i>Astragalus bisulcatus</i>                              | <i>Astragalus bisulcatus</i>                              | Native     | Sexual            |                     | Autotrophic | May     | June     | July      |
| ASCR2       | <i>Astragalus crassicaupus</i>                            | <i>Astragalus crassicaupus</i>                            | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ASEM2       | <i>Astragalus emoryanus</i>                               | <i>Astragalus emoryanus</i>                               | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASFL2       | <i>Astragalus flexuosus</i>                               | <i>Astragalus flexuosus</i>                               | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ASGR3       | <i>Astragalus gracilis</i>                                | <i>Astragalus gracilis</i>                                | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| ASHU2       | <i>Astragalus humistratus</i>                             | <i>Astragalus humistratus</i>                             | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>    | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     |            |                   |                     |             |         |          |           |
| ASLE8       | <i>Astragalus lentiginosus</i>                            | <i>Astragalus lentiginosus</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASLO3       | <i>Astragalus lonchocarpus</i>                            | <i>Astragalus lonchocarpus</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | Native     | Sexual            | C3                  | Autotrophic | May     | May      | May       |
| ASMO7       | <i>Astragalus mollissimus</i>                             | <i>Astragalus mollissimus</i>                             | Native     | Sexual            | C3                  | Autotrophic | May     | May      | June      |
| ASPR5       | <i>Astragalus praelongus</i>                              | <i>Astragalus praelongus</i>                              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ASSH3       | <i>Astragalus shortianus</i>                              | <i>Astragalus shortianus</i>                              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>       | <i>Athyrium filix-femina</i> var. <i>californicum</i>     | Introduced | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| ATCA2       | <i>Atriplex canescens</i>                                 | <i>Atriplex canescens</i>                                 | Native     | Sexual            | C4                  | Autotrophic | May     | June     | September |

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|-------------|-------------------------------------------------------------|-----------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                              | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                              |            |                   |                     |             |         |          |           |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                               | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                            |            |                   |                     |             |         |          |           |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                           |            |                   |                     |             |         |          |           |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                          | Introduced | Sexual            | C4                  | Autotrophic | August  | August   | September |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                        | Native     | Sexual            | C3                  | Autotrophic | July    | August   |           |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                            | Native     | Vegetative-Sexual |                     | Autotrophic | May     | June     | August    |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                              |            |                   |                     |             |         |          |           |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                           | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| BEPL        | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BEOC2       | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                          | Native     | Sexual            |                     | Autotrophic | May     | May      | June      |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                             | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BICE        | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| BITR        | <i>Bidens tripartita</i>                                    | <i>Bidens cosmosa</i>                               | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BIFR        | <i>Bidens frondosa</i>                                      | <i>Bidens frondosa</i>                              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BLTR        | <i>Blepharoneuron tricholepis</i>                           | <i>Blepharoneuron tricholepis</i>                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BOCO2       | <i>Boerhavia coulteri</i>                                   | <i>Boerhaavia coulteri</i>                          |            |                   |                     |             |         |          |           |
| BOMU        | <i>Botrychium multifidum</i>                                | <i>Botrychium multifidum</i> subsp. <i>coulteri</i> | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BOAR        | <i>Bouteloua aristidoides</i>                               | <i>Bouteloua aristidoides</i>                       | Native     |                   | C4                  | Autotrophic |         |          |           |
| BOBA2       | <i>Bouteloua barbata</i>                                    | <i>Bouteloua barbata</i>                            | Native     | Sexual            | C4                  | Autotrophic |         |          |           |
| BOCU        | <i>Bouteloua curtipendula</i>                               | <i>Bouteloua curtipendula</i>                       | Native     | Sexual-Apomictic  | C4                  | Autotrophic | July    |          | September |
| BOER4       | <i>Bouteloua eriopoda</i>                                   | <i>Bouteloua eriopoda</i>                           | Native     | Vegetative-Sexual | C4                  | Autotrophic | June    | August   |           |
| BOGR2       | <i>Bouteloua gracilis</i>                                   | <i>Bouteloua gracilis</i>                           | Native     |                   | C4                  | Autotrophic | July    |          | September |
| BOHI2       | <i>Bouteloua hirsuta</i>                                    | <i>Bouteloua hirsuta</i>                            | Native     | Sexual            | C4                  | Autotrophic | July    |          | August    |
| BOSI2       | <i>Bouteloua simplex</i>                                    | <i>Bouteloua simplex</i>                            | Native     | Sexual            |                     | Autotrophic | August  |          | September |
| BRJU        | <i>Brassica juncea</i>                                      | <i>Brassica juncea</i>                              | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| BRNI        | <i>Brassica nigra</i>                                       | <i>Brassica nigra</i>                               | Introduced | Sexual            | C3                  | Autotrophic | June    | July     | October   |
| BRBE        | <i>Brickellia betonicifolia</i>                             | <i>Brickellia betonicaefolia</i>                    |            |                   |                     |             |         |          |           |
| BRBR2       | <i>Brickellia brachyphylla</i>                              | <i>Brickellia brachyphylla</i>                      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BRCA3       | <i>Brickellia californica</i>                               | <i>Brickellia californica</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BRFE        | <i>Brickellia fendleri</i>                                  | <i>Brickellia fendleri</i>                          |            |                   |                     |             |         |          |           |

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|-------------|--------------------------------|--------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| BRGR        | <i>Brickellia grandiflora</i>  | <i>Brickellia grandiflora</i>  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BRAN        | <i>Bromus anomalus</i>         | <i>Bromus anomalus</i>         | Native     | Sexual            |                     | Autotrophic | June    |          | August    |
| BRCA6       | <i>Bromus catharticus</i>      | <i>Bromus catharticus</i>      |            |                   |                     |             |         |          |           |
| BRCI2       | <i>Bromus ciliatus</i>         | <i>Bromus ciliatus</i>         | Native     | Sexual            |                     | Autotrophic | July    |          | September |
| BRFR2       | <i>Bromus frondosus</i>        | <i>Bromus frondosus</i>        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BRIN2       | <i>Bromus inermis</i>          | <i>Bromus inermis</i>          | Introduced | Vegetative-Sexual | C3                  | Autotrophic | June    |          | September |
| BRJA        | <i>Bromus japonicus</i>        | <i>Bromus japonicus</i>        | Introduced | Sexual            | C3                  | Autotrophic | June    |          | August    |
| BRLA6       | <i>Bromus lanatipes</i>        | <i>Bromus lanatipes</i>        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BRMA4       | <i>Bromus marginatus</i>       | <i>Bromus marginatus</i>       | Native     | Sexual            |                     | Autotrophic | May     |          | August    |
| BRKA2       | <i>Bromus kalmii</i>           | <i>Bromus purgans</i>          | Native     | Sexual            |                     | Autotrophic |         |          |           |
| BRTE        | <i>Bromus tectorum</i>         | <i>Bromus tectorum</i>         | Introduced | Sexual            | C3                  | Autotrophic | May     |          | August    |
| BUDA        | <i>Buchloe dactyloides</i>     | <i>Buchloe dactyloides</i>     | Native     | Vegetative-Sexual | C4                  | Autotrophic |         |          |           |
| CAGU        | <i>Calochortus gunnisonii</i>  | <i>Calochortus gunnisonii</i>  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CANU3       | <i>Calochortus nuttallii</i>   | <i>Calochortus nuttallii</i>   | Native     | Sexual            |                     | Autotrophic | May     | May      | July      |
| CAHA14      | <i>Calylophus hartwegii</i>    | <i>Calylophus hartwegii</i>    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CABU        | <i>Calypso bulbosa</i>         | <i>Calypso bulbosa</i>         | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CAMI2       | <i>Camelina microcarpa</i>     | <i>Camelina microcarpa</i>     | Introduced | Sexual            | C3                  | Autotrophic | May     | June     | August    |
| CAPA10      | <i>Campanula parryi</i>        | <i>Campanula parryi</i>        | Native     | Vegetative-Sexual |                     | Autotrophic | June    | July     | September |
| CARO2       | <i>Campanula rotundifolia</i>  | <i>Campanula rotundifolia</i>  | Native     | Vegetative-Sexual | C3                  | Autotrophic | June    | July     | September |
| CABU2       | <i>Capsella bursa-pastoris</i> | <i>Capsella bursa-pastoris</i> | Introduced | Sexual            | C3                  | Autotrophic | April   | June     | October   |
| CACO6       | <i>Cardamine cordifolia</i>    | <i>Cardamine cordifolia</i>    | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CADR        | <i>Cardaria draba</i>          | <i>Cardaria draba</i>          | Introduced | Vegetative-Sexual |                     | Autotrophic | April   | May      | August    |
| CANU4       | <i>Carduus nutans</i>          | <i>Carduus nutans</i>          | Introduced | Sexual            |                     | Autotrophic | June    | July     | August    |
| CAAQ        | <i>Carex aquatilis</i>         | <i>Carex aquatilis</i>         | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CABE3       | <i>Carex bella</i>             | <i>Carex bella</i>             | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CABO2       | <i>Carex bolanderi</i>         | <i>Carex bolanderi</i>         | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CABR10      | <i>Carex brevior</i>           | <i>Carex brevior</i>           | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| CACA11      | <i>Carex canescens</i>         | <i>Carex canescens</i>         | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CADO2       | <i>Carex douglasii</i>         | <i>Carex douglasii</i>         | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |

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|-------------|-------------------------------------------------------|-------------------------------------------------------|--------|-------------------|---------------------|-------------|---------|----------|-----------|
| CADU6       | <i>Carex duriuscula</i>                               | <i>Carex eleocharis</i>                               | Native | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| CAMI7       | <i>Carex microptera</i>                               | <i>Carex festivella</i>                               | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CAFO3       | <i>Carex foenea</i>                                   | <i>Carex foenea</i>                                   | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CAGE        | <i>Carex geophila</i>                                 | <i>Carex geophila</i>                                 | Native | Sexual            |                     | Autotrophic |         |          |           |
| CAHY4       | <i>Carex hystericina</i>                              | <i>Carex hystericina</i>                              | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CAIN11      | <i>Carex interior</i>                                 | <i>Carex interior</i>                                 | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CALA30      | <i>Carex lanuginosa</i>                               | <i>Carex lanuginosa</i>                               | Native | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| CANE2       | <i>Carex nebraskensis</i>                             | <i>Carex nebraskensis</i>                             | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CAOC2       | <i>Carex occidentalis</i>                             | <i>Carex occidentalis</i>                             | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CAPR5       | <i>Carex praegracilis</i>                             | <i>Carex praegracilis</i>                             | Native | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| CASC11      | <i>Carex scoparia</i>                                 | <i>Carex scoparia</i>                                 | Native | Sexual            |                     | Autotrophic |         |          |           |
| CAST5       | <i>Carex stipata</i>                                  | <i>Carex stipata</i>                                  | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CAXE        | <i>Carex xerantica</i>                                | <i>Carex xerantica</i>                                | Native | Sexual            |                     | Autotrophic |         |          |           |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>         | <i>Castilleja confusa</i>                             |        |                   |                     |             |         |          |           |
| CAIN14      | <i>Castilleja integra</i>                             | <i>Castilleja integra</i>                             | Native | Sexual            |                     | Autotrophic | May     | June     | August    |
| CALI4       | <i>Castilleja linariifolia</i>                        | <i>Castilleja linariaefolia</i>                       | Native | Sexual            |                     | Autotrophic | June    | July     | September |
| CALI5       | <i>Castilleja lineata</i>                             | <i>Castilleja lineata</i>                             | Native | Sexual            |                     | Autotrophic |         |          |           |
| CAMI12      | <i>Castilleja miniata</i>                             | <i>Castilleja miniata</i>                             | Native | Sexual            |                     | Autotrophic | June    | July     | August    |
| CAMI13      | <i>Castilleja minor</i>                               | <i>Castilleja minor</i>                               | Native | Sexual            |                     | Autotrophic |         |          |           |
| CARH4       | <i>Castilleja rhexiifolia</i>                         | <i>Castilleja rhexifolia</i>                          | Native | Sexual            |                     | Autotrophic |         |          |           |
| CEFE        | <i>Ceanothus fendleri</i>                             | <i>Ceanothus fendleri</i>                             | Native | Sexual            |                     | Autotrophic | June    | June     | August    |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>        | <i>Celtis reticulata</i>                              | Native | Sexual            |                     | Autotrophic |         |          |           |
| CEEC        | <i>Cenchrus echinatus</i>                             | <i>Cenchrus echinatus</i>                             |        |                   |                     |             | July    |          | September |
| CEIN4       | <i>Cenchrus incertus</i>                              | <i>Cenchrus pauciflorus</i>                           |        |                   |                     |             |         |          |           |
| CECA3       | <i>Centaurium calycosum</i>                           | <i>Centaurium calycosum</i>                           | Native | Sexual            |                     | Autotrophic |         |          |           |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                              | Native | Vegetative-Sexual | C3                  | Autotrophic | April   | June     | September |
| CEBR3       | <i>Cerastium brachypodum</i>                          | <i>Cerastium brachypodum</i>                          |        |                   |                     |             |         |          |           |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                             |        |                   |                     |             |         |          |           |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | Native | Sexual            | C3                  | Autotrophic | May     | May      | August    |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> |        |                   |                     |             |         |          |           |



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|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| CHCO        | <i>Chamaesaracha coniodes</i>                                                          | <i>Chamaesaracha coniodes</i>                                  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHCO2       | <i>Chamaesaracha coronopus</i>                                                         | <i>Chamaesaracha coronopus</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHFE        | <i>Cheilanthes feei</i>                                                                | <i>Cheilanthes feei</i>                                        | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CHFE2       | <i>Cheilanthes fendleri</i>                                                            | <i>Cheilanthes fendleri</i>                                    | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CHTO2       | <i>Cheilanthes tomentosa</i>                                                           | <i>Cheilanthes tomentosa</i>                                   |            |                   |                     |             |         |          |           |
| CHEA        | <i>Cheilanthes eatonii</i>                                                             | <i>Cheilanthes eatonii</i>                                     | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CHAL6       | <i>Chenopodium albescens</i>                                                           | <i>Chenopodium albescens</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHAL7       | <i>Chenopodium album</i>                                                               | <i>Chenopodium album</i>                                       | Introduced | Sexual            | C3                  | Autotrophic | June    | July     | September |
| CHBE4       | <i>Chenopodium berlandieri</i>                                                         | <i>Chenopodium berlandieri</i>                                 | Introduced | Sexual            |                     | Autotrophic | June    | July     | September |
| CHCA4       | <i>Chenopodium capitatum</i>                                                           | <i>Chenopodium capitatum</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHCY        | <i>Chenopodium cycloides</i>                                                           | <i>Chenopodium cycloides</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHDE        | <i>Chenopodium desiccatum</i>                                                          | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>           | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| CHPR5       | <i>Chenopodium pratericola</i>                                                         | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i>      | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| CHFR3       | <i>Chenopodium fremontii</i>                                                           | <i>Chenopodium fremontii</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHS12       | <i>Chenopodium simplex</i>                                                             | <i>Chenopodium gigantospermum</i>                              |            |                   |                     |             |         |          |           |
| CHGL3       | <i>Chenopodium glaucum</i>                                                             | <i>Chenopodium glaucum</i>                                     | Introduced | Sexual            | C3                  | Autotrophic | May     | August   | September |
| CHGR2       | <i>Chenopodium graveolens</i>                                                          | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>         |            |                   |                     |             |         |          |           |
| CHIN2       | <i>Chenopodium incanum</i>                                                             | <i>Chenopodium incanum</i>                                     | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                                        | <i>Chenopodium leptophyllum</i>                                | Native     | Sexual            | C3                  | Autotrophic | May     | August   | September |
| CHRU        | <i>Chenopodium rubrum</i>                                                              | <i>Chenopodium rubrum</i>                                      | Native     | Sexual            | C3                  | Autotrophic | June    | August   | September |
| CHWA        | <i>Chenopodium watsonii</i>                                                            | <i>Chenopodium watsonii</i>                                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHUM        | <i>Chimaphila umbellata</i>                                                            | <i>Chimaphila umbellata</i>                                    | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         | Introduced | Sexual            | C4                  | Autotrophic |         |          |           |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      |            |                   |                     |             |         |          |           |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      |            |                   |                     |             |         |          |           |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           |            |                   |                     |             |         |          |           |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> | Native     | Sexual            | C3                  | Autotrophic | July    | August   | September |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        | Native     | Vegetative-Sexual |                     | Autotrophic | July    | July     | August    |

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|-------------|---------------------------------------------------|---------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| CIAL        | <i>Circaea alpina</i>                             | <i>Circaea alpina</i>           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CINE        | <i>Cirsium neomexicanum</i>                       | <i>Cirsium neomexicanum</i>     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CIOC2       | <i>Cirsium ochrocentrum</i>                       | <i>Cirsium ochrocentrum</i>     | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| CIPA5       | <i>Cirsium pallidum</i>                           | <i>Cirsium pallidum</i>         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CIPA        | <i>Cirsium parryi</i>                             | <i>Cirsium parryi</i>           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CICA10      | <i>Cirsium calcareum</i>                          | <i>Cirsium pulchellum</i>       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CIUN        | <i>Cirsium undulatum</i>                          | <i>Cirsium undulatum</i>        | Native     | Sexual            | C3                  | Autotrophic | May     | July     | September |
| CIVU        | <i>Cirsium vulgare</i>                            | <i>Cirsium vulgare</i>          | Introduced | Sexual            | C3                  | Autotrophic | July    | August   | September |
| CLDR        | <i>Clematis drummondii</i>                        | <i>Clematis drummondii</i>      |            |                   |                     |             |         |          |           |
| CLLI2       | <i>Clematis ligusticifolia</i>                    | <i>Clematis ligusticifolia</i>  | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i> | <i>Clematis pseudoalpina</i>    |            |                   |                     |             |         |          |           |
| CLSE        | <i>Cleome serrulata</i>                           | <i>Cleome serrulata</i>         | Native     | Sexual            |                     | Autotrophic | June    | July     | September |
| CLVU        | <i>Clinopodium vulgare</i>                        | <i>Clinopodium vulgare</i>      |            |                   |                     |             |         |          |           |
| COLI2       | <i>Collomia linearis</i>                          | <i>Collomia linearis</i>        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>     | <i>Comandra pallida</i>         |            |                   |                     |             |         |          |           |
| CODI4       | <i>Commelina dianthifolia</i>                     | <i>Commelina dianthifolia</i>   | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>     | <i>Conopholis mexicana</i>      |            |                   |                     |             |         |          |           |
| COAR4       | <i>Convolvulus arvensis</i>                       | <i>Convolvulus arvensis</i>     | Introduced | Vegetative-Sexual | C3                  | Autotrophic | May     | July     | September |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>       | <i>Convolvulus sepium</i>       |            |                   |                     |             |         |          |           |
| COCA5       | <i>Conyza canadensis</i>                          | <i>Conyza canadensis</i>        | Introduced | Sexual            | C3                  | Autotrophic | July    | August   | September |
| COMA4       | <i>Corallorrhiza maculata</i>                     | <i>Corallorrhiza maculata</i>   | Native     | Vegetative-Sexual | None                | Saprophytic |         |          |           |
| COST        | <i>Corallorrhiza striata</i>                      | <i>Corallorrhiza striata</i>    | Native     | Vegetative-Sexual | None                | Saprophytic |         |          |           |
| COWR2       | <i>Cordylanthus wrightii</i>                      | <i>Cordylanthus wrightii</i>    | Native     | Sexual            |                     | Parasitic   |         |          |           |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i>  | <i>Coreopsis cardaminefolia</i> |            |                   |                     |             |         |          |           |
| COTI3       | <i>Coreopsis tinctoria</i>                        | <i>Coreopsis tinctoria</i>      | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| COSA        | <i>Coriandrum sativum</i>                         | <i>Coriandrum sativum</i>       | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| COSES       | <i>Comus sericea</i> ssp. <i>sericea</i>          | <i>Comus stolonifera</i>        | Native     | Vegetative-Sexual |                     | Autotrophic | May     | June     | July      |
| COAU2       | <i>Corydalis aurea</i>                            | <i>Corydalis aurea</i>          | Native     | Sexual            | C3                  | Autotrophic | May     | July     | August    |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>    | <i>Coryphantha vivipara</i>     | Native     | Sexual            | CAM                 | Autotrophic |         |          |           |
| COPA12      | <i>Cosmos parviflorus</i>                         | <i>Cosmos parviflorus</i>       | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| CRER        | <i>Crataegus erythropoda</i>                      | <i>Crataegus erythropoda</i>    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CRTE4       | <i>Croton texensis</i>                            | <i>Croton texensis</i>          | Native     | Sexual            |                     | Autotrophic | June    | August   | August    |
| CRFE3       | <i>Cryptantha fendleri</i>                        | <i>Cryptantha fendleri</i>      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>     | <i>Cryptantha jamesii</i>       | Native     | Sexual            | C3                  | Autotrophic |         |          |           |

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|-------------|------------------------------------------------|-------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| CRM15       | <i>Cryptantha minima</i>                       | <i>Cryptantha minima</i>                              | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| CRAC3       | <i>Cryptogramma acrostichoides</i>             | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CUFO        | <i>Cucurbita foetidissima</i>                  | <i>Cucurbita foetidissima</i>                         | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i> | <i>Cuscuta campestris</i>                             | Native     | Vegetative-Sexual | None                | Parasitic   |         |          |           |
| CUUM        | <i>Cuscuta umbellata</i>                       | <i>Cuscuta umbellata</i>                              | Native     | Vegetative-Sexual | None                | Parasitic   |         |          |           |
| CYBU        | <i>Cymopterus bulbosus</i>                     | <i>Cymopterus bulbosus</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CYDA        | <i>Cynodon dactylon</i>                        | <i>Cynodon dactylon</i>                               | Introduced | Vegetative-Sexual | C4                  | Autotrophic |         |          |           |
| CYEC        | <i>Cynosurus echinatus</i>                     | <i>Cynosurus echinatus</i>                            |            |                   |                     |             |         |          |           |
| CYSQ        | <i>Cyperus squarrosus</i>                      | <i>Cyperus aristatus</i>                              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MISE3       | <i>Mitreola sessilifolia</i>                   | <i>Cyperus esculentus</i>                             | Native     | Vegetative-Sexual | C4                  | Autotrophic |         |          |           |
| CYFE2       | <i>Cyperus fendlerianus</i>                    | <i>Cyperus fendlerianus</i>                           | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| CYBI6       | <i>Cyperus bipartitus</i>                      | <i>Cyperus rivularis</i>                              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CYPU10      | <i>Cypripedium pubescens</i>                   | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    |            |                   |                     |             |         |          |           |
| CYFR2       | <i>Cystopteris fragilis</i>                    | <i>Cystopteris fragilis</i>                           | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| DAGL        | <i>Dactylis glomerata</i>                      | <i>Dactylis glomerata</i>                             | Introduced | Sexual            | C3                  | Autotrophic | June    |          | August    |
| DABR        | <i>Dalea brachystachya</i>                     | <i>Dalea brachystachys</i>                            |            |                   |                     |             |         |          |           |
| DAFO        | <i>Dalea formosa</i>                           | <i>Dalea formosa</i>                                  | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| DALE3       | <i>Dalea leporina</i>                          | <i>Dalea leporina</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DANA        | <i>Dalea nana</i>                              | <i>Dalea nana</i>                                     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DAPO3       | <i>Dalea polygonoides</i>                      | <i>Dalea polygonoides</i>                             |            |                   |                     |             |         |          |           |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>     | <i>Dalea terminalis</i>                               |            |                   |                     |             |         |          |           |
| DAIN        | <i>Danthonia intermedia</i>                    | <i>Danthonia intermedia</i>                           | Native     | Sexual            |                     | Autotrophic | July    |          | August    |
| DAPA2       | <i>Danthonia parryi</i>                        | <i>Danthonia parryi</i>                               | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DASP2       | <i>Danthonia spicata</i>                       | <i>Danthonia spicata</i>                              | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| DAWR2       | <i>Datura wrightii</i>                         | <i>Datura meteloides</i>                              | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| DEOC        | <i>Delphinium X occidentale</i>                | <i>Delphinium occidentale</i>                         | Native     | Sexual            |                     | Autotrophic | June    | July     | September |
| DEWO        | <i>Delphinium wootonii</i>                     | <i>Delphinium virescens</i> subsp. <i>wootonii</i>    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DECE        | <i>Deschampsia cespitosa</i>                   | <i>Deschampsia caespitosa</i>                         | Native     |                   | C3                  | Autotrophic | July    |          | September |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>   | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DEPI        | <i>Descurainia pinnata</i>                     | <i>Descurainia pinnata</i>                            | Native     | Sexual            | C3                  | Autotrophic | May     | May      | June      |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>   | <i>Descurainia richardsonii</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>   | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>  |            |                   |                     |             |         |          |           |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>  | <i>Descurainia richardsonii</i> subsp. <i>procera</i> |            |                   |                     |             |         |          |           |

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| DESO2       | <i>Descurainia sophia</i>                                       | <i>Descurainia sophia</i>                                       | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>                   | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i>           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis spicata</i>                                       |            |                   |                     |             |         |          |           |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis stricta</i>                                       | Native     | Vegetative-Sexual | Cr                  | Autotrophic |         |          |           |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                                  | <i>Dithyrea wislizenii</i>                                      | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| DOAL        | <i>Dodecatheon alpinum</i>                                      | <i>Dodecatheon alpinum</i>                                      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DOPU        | <i>Dodecatheon pulchellum</i>                                   | <i>Dodecatheon pulchellum</i>                                   | Native     | Vegetative-Sexual |                     | Autotrophic | May     | July     | July      |
| DRAU        | <i>Draba aurea</i>                                              | <i>Draba aurea</i> var. <i>aurea</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>                  | <i>Draba helleriana</i> var. <i>helleriana</i>                  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DRRE        | <i>Draba rectifruta</i>                                         | <i>Draba rectifruta</i>                                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DRRE2       | <i>Draba reptans</i>                                            | <i>Draba reptans</i>                                            | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| DRSP        | <i>Draba spectabilis</i>                                        | <i>Draba spectabilis</i>                                        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         | Native     | Sexual            |                     | Autotrophic | June    | August   | October   |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    | Native     | Sexual            | CAM                 | Autotrophic |         |          |           |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | Native     | Sexual            | CAM                 | Autotrophic |         |          |           |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   | Native     | Sexual            | CAM                 | Autotrophic |         |          |           |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    | Introduced | Sexual            | C4                  | Autotrophic | August  |          | September |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   | Introduced | Vegetative-Sexual | C3                  | Autotrophic | May     | June     | July      |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  |            |                   |                     |             |         |          |           |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        | Native     | Sexual            | C3                  | Autotrophic | July    |          | August    |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           | Native     | Sexual            | C3                  | Autotrophic | July    |          | August    |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        | Native     | Sexual            | C3                  | Autotrophic | July    |          | September |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        | Native     | Sexual            | C3                  | Autotrophic | May     | June     | August    |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                      | <i>Ephedra viridis</i> var. <i>viridis</i>                      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| EPAN2       | <i>Epilobium angustifolium</i>                                  | <i>Epilobium angustifolium</i>                                  | Native     | Vegetative-Sexual |                     | Autotrophic | June    | July     | August    |
| EPCI        | <i>Epilobium ciliatum</i>                                       | <i>Epilobium ciliatum</i>                                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| EPOR2       | <i>Epilobium oregonense</i>                                     | <i>Epilobium oregonense</i>                                     |            |                   |                     |             |         |          |           |
| EPBR3       | <i>Epilobium brachycarpum</i>                                   | <i>Epilobium paniculatum</i>                                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| EPGI        | <i>Epipactis gigantea</i>                                       | <i>Epipactis gigantea</i>                                       | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |

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|-------------|---------------------------------------------------------|---------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| EQAR        | <i>Equisetum arvense</i>                                | <i>Equisetum arvense</i>                                | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| EQHY        | <i>Equisetum hyemale</i>                                | <i>Equisetum hiemale</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| EQLA        | <i>Equisetum laevigatum</i>                             | <i>Equisetum laevigatum</i>                             | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>      | <i>Eragrostis arida</i>                                 |            |                   |                     |             |         |          |           |
| ERBA2       | <i>Eragrostis barrelieri</i>                            | <i>Eragrostis barrelieri</i>                            | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| ERCI        | <i>Eragrostis cilianensis</i>                           | <i>Eragrostis cilianensis</i>                           | Introduced | Sexual            | C4                  | Autotrophic | July    |          | September |
| ERCU2       | <i>Eragrostis curvula</i>                               | <i>Eragrostis curvula</i>                               |            |                   |                     |             |         |          |           |
| ERHY        | <i>Eragrostis hypnoides</i>                             | <i>Eragrostis hypnoides</i>                             |            |                   |                     |             |         |          |           |
| ERPE        | <i>Eragrostis pectinacea</i>                            | <i>Eragrostis pectinacea</i>                            |            |                   |                     |             |         |          |           |
| ERTR3       | <i>Eragrostis trichodes</i>                             | <i>Eragrostis trichodes</i>                             |            |                   |                     |             |         |          |           |
| ERCA4       | <i>Erigeron canus</i>                                   | <i>Erigeron canus</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERDI4       | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| EREL9       | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             | Native     | Vegetative-Sexual | C3                  | Autotrophic | May     | June     | September |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus viscidus</i>                  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              |            |                   |                     |             |         |          |           |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            |            |                   |                     |             |         |          |           |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinus</i>          | <i>Erigeron pumilus</i> subsp. <i>concinoides</i>       | Native     | Sexual            | C3                  | Autotrophic | May     | May      | June      |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              |            |                   |                     |             |         |          |           |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 | Native     | Sexual            |                     | Autotrophic | May     | July     | September |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | Native     | Sexual            |                     | Autotrophic | June    | August   | September |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               |            |                   |                     |             |         |          |           |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             |            |                   |                     |             |         |          |           |
| ERAL4       | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| ERAN4       | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERCE2       | <i>Eriogonum cernuum</i>                                | <i>Eriogonum cernuum</i>                                | Native     | Sexual            |                     | Autotrophic | June    | August   | September |
| EREF        | <i>Eriogonum effusum</i>                                | <i>Eriogonum effusum</i>                                | Native     | Sexual            |                     | Autotrophic | May     | July     | October   |
| ERJA        | <i>Eriogonum jamesii</i>                                | <i>Eriogonum jamesii</i>                                | Native     | Sexual            | C3                  | Autotrophic |         |          |           |

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|-------------|-----------------------------------------------------------|---------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| ERLE9       | <i>Eriogonum leptocladon</i>                              | <i>Eriogonum leptocladon</i>                      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERPO4       | <i>Eriogonum polycladon</i>                               | <i>Eriogonum polycladon</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ERRA3       | <i>Eriogonum racemosum</i>                                | <i>Eriogonum racemosum</i>                        | Native     | Sexual            |                     | Autotrophic | June    | August   | September |
| ERIC6       | <i>Erodium cicutarium</i>                                 | <i>Erodium cicutarium</i>                         | Introduced | Sexual            |                     | Autotrophic | April   | May      | October   |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>           | <i>Erysimum asperum</i>                           | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ERCA14      | <i>Erysimum capitatum</i>                                 | <i>Erysimum capitatum</i>                         |            |                   |                     |             |         |          |           |
| ERIN7       | <i>Erysimum inconspicuum</i>                              | <i>Erysimum inconspicuum</i>                      | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ERHE7       | <i>Erythronium hendersonii</i>                            | <i>Eupatorium herbaceum</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHAL11      | <i>Chamaesyce albomarginata</i>                           | <i>Euphorbia albomarginata</i>                    | Native     | Vegetative-Sexual | C4                  | Autotrophic |         |          |           |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i>                          | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i> var. <i>cuphospema</i>   | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| EUEX4       | <i>Euphorbia exstipulata</i>                              | <i>Euphorbia exstipulata</i>                      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHFE3       | <i>Chamaesyce fendleri</i>                                | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    | Native     | Sexual            | C4                  | Autotrophic |         |          |           |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>               | <i>Euphorbia geyeri</i>                           | Native     | Sexual            | C4                  | Autotrophic |         |          |           |
| EULU        | <i>Euphorbia lurida</i>                                   | <i>Euphorbia lurida</i>                           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> | Native     | Sexual            | C4                  | Autotrophic |         |          |           |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      |            |                   |                     |             |         |          |           |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         | Native     | Sexual            | C4                  | Autotrophic |         |          |           |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    | Native     | Sexual            | C4                  | Autotrophic |         |          |           |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             |            |                   |                     |             |         |          |           |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                          |            |                   |                     |             |         |          |           |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                          | Native     | Sexual            | C3                  | Autotrophic | June    | June     | June      |
| FERUR       | <i>Fendleri rupicola</i> var. <i>rupicola</i>             | <i>Fendleri rupicola</i> var. <i>rupicola</i>     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                          | Native     | Sexual            |                     | Autotrophic | July    |          | August    |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                            |            |                   |                     |             |         |          |           |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                          |            |                   |                     |             |         |          |           |
| FEOV        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                              | Native     | Sexual-Apomictic  |                     | Autotrophic | July    |          | August    |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                           | Native     | Sexual            |                     | Autotrophic | July    |          | August    |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>               | <i>Fragaria americana</i>                         | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>         | <i>Fragaria ovalis</i>                            |            |                   |                     |             |         |          |           |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                        | <i>Franseria acanthicarpa</i>                     |            |                   |                     |             |         |          |           |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                         | <i>Franseria confertiflora</i>                    |            |                   |                     |             |         |          |           |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                       | <i>Gaillardia pinnatifida</i>                     | Native     | Sexual            |                     | Autotrophic |         |          |           |

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|-------------|---------------------------------------------------|--------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| GAAP2       | <i>Galium aparine</i> L.                          | <i>Galium aparine</i>                            | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>asperrimum</i>    | <i>Galium asperrimum</i>                         |            |                   |                     |             |         |          |           |
| GABO2       | <i>Galium boreale</i>                             | <i>Galium boreale</i>                            | Native     | Vegetative-Sexual | C3                  | Autotrophic | April   | June     | August    |
| GAFE        | <i>Galium fendleri</i>                            | <i>Galium fendleri</i>                           |            |                   |                     |             |         |          |           |
| GAMI        | <i>Galium microphyllum</i>                        | <i>Galium microphyllum</i>                       |            |                   |                     |             |         |          |           |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>    | <i>Galium tinctorum</i> var. <i>subbiflorum</i>  |            |                   |                     |             |         |          |           |
| GACO5       | <i>Gaura coccinea</i>                             | <i>Gaura coccinea</i>                            | Native     | Sexual            | C3                  | Autotrophic | May     | June     | August    |
| GAPA6       | <i>Gaura parviflora</i>                           | <i>Gaura parviflora</i>                          | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana affinis</i>                          | Native     | Sexual            |                     | Autotrophic | July    | August   | September |
| GEAF        | <i>Gentiana affinis</i>                           | <i>Gentiana bigelovii</i>                        |            |                   |                     |             |         |          |           |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana plebeia</i>                          |            |                   |                     |             |         |          |           |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>     | <i>Gentiana strictiflora</i>                     |            |                   |                     |             |         |          |           |
| GECA3       | <i>Geranium caespitosum</i>                       | <i>Geranium caespitosum</i>                      |            |                   |                     |             |         |          |           |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i> | <i>Geranium fremontii</i>                        | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>    | <i>Geranium fremontii</i> var. <i>parryi</i>     |            |                   |                     |             |         |          |           |
| GERI        | <i>Geranium richardsonii</i>                      | <i>Geranium richardsonii</i>                     | Native     | Sexual            |                     | Autotrophic | May     | July     | September |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>   | <i>Geum macrophyllum</i> var. <i>perincisum</i>  | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| GERI2       | <i>Geum rivale</i>                                | <i>Geum rivale</i>                               | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| GEAL3       | <i>Geum aleppicum</i>                             | <i>Geum strictum</i> var. <i>strictum</i>        |            |                   |                     |             |         |          |           |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>        | <i>Geum triflorum</i> var. <i>ciliatum</i>       | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>    | <i>Gilia flavocincta</i> subsp. <i>australis</i> |            |                   |                     |             |         |          |           |
| GILE3       | <i>Gilia leptomeria</i>                           | <i>Gilia leptomeria</i>                          | Native     | Sexual            |                     | Autotrophic |         |          |           |
| GIPI        | <i>Gilia pinnatifida</i>                          | <i>Gilia pinnatifida</i>                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| GLBO        | <i>Glyceria borealis</i>                          | <i>Glyceria borealis</i>                         | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| GLGR        | <i>Glyceria grandis</i>                           | <i>Glyceria grandis</i>                          | Native     | Vegetative-Sexual | C3                  | Autotrophic | June    |          | August    |
| GLST        | <i>Glyceria striata</i>                           | <i>Glyceria striata</i>                          | Native     | Vegetative-Sexual | C3                  | Autotrophic | July    |          | August    |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                       | <i>Glycyrrhiza lepidota</i>                      | Native     | Vegetative-Sexual | C3                  | Autotrophic | June    | July     | August    |
| PSST7       | <i>Pseudognaphalium stramineum</i>                | <i>Gnaphalium chilense</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PSST7       | <i>Pseudognaphalium stramineum</i>                | <i>Gnaphalium chilense</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| GNEX        | <i>Gnaphalium exilifolium</i>                     | <i>Gnaphalium grayi</i>                          |            |                   |                     |             |         |          |           |
| PSMA11      | <i>Pseudognaphalium macounii</i>                  | <i>Gnaphalium macounii</i>                       |            |                   |                     |             |         |          |           |
| GNPA        | <i>Gnaphalium palustre</i>                        | <i>Gnaphalium palustre</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |

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|-------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|--------|-------------------|---------------------|-------------|---------|----------|-----------|
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i>                           | <i>Gnaphalium wrightii</i>                             | Native | Sexual            |                     | Autotrophic |         |          |           |
| GOOB2       | <i>Goodyera oblongifolia</i>                                                      | <i>Goodyera oblongifolia</i>                           | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| GORE2       | <i>Goodyera repens</i>                                                            | <i>Goodyera repens</i>                                 | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>                                      | <i>Grindelia aphanactis</i>                            | Native | Sexual            |                     | Autotrophic |         |          |           |
| GRFA        | <i>Grindelia fastigiata</i>                                                       | <i>Grindelia fastigiata</i>                            | Native | Sexual            |                     | Autotrophic |         |          |           |
| GRSQ        | <i>Grindelia squarrosa</i>                                                        | <i>Grindelia squarrosa</i>                             | Native | Sexual            | C3                  | Autotrophic | June    | August   | September |
| GUMI        | <i>Gutierrezia microcephala</i>                                                   | <i>Gutierrezia microcephala</i>                        | Native | Sexual            |                     | Autotrophic |         |          |           |
| GUSA2       | <i>Gutierrezia sarothrae</i>                                                      | <i>Gutierrezia sarothrae</i>                           | Native | Sexual            | C3                  | Autotrophic | June    | August   | September |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>                              | <i>Habenaria hyperborea</i>                            | Native | Sexual            |                     | Autotrophic |         |          |           |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>                            | <i>Habenaria sparsiflora</i>                           | Native | Sexual            |                     | Autotrophic |         |          |           |
| HAFL2       | <i>Hackelia floribunda</i>                                                        | <i>Hackelia floribunda</i>                             | Native | Sexual            |                     | Autotrophic |         |          |           |
| HABE3       | <i>Hackelia besseyi</i>                                                           | <i>Hackelia grisea</i>                                 |        |                   |                     |             |         |          |           |
| HAPI2       | <i>Hackelia pinetorum</i>                                                         | <i>Hackelia pinetorum</i>                              |        |                   |                     |             |         |          |           |
| PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i>                                        | <i>Haplopappus croceus</i>                             |        |                   |                     |             |         |          |           |
| MAGR10      | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                            | Native | Sexual            | C3                  | Autotrophic |         |          |           |
| MAGR6       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                           |        |                   |                     |             |         |          |           |
| SOPA4       | <i>Solidago parryi</i>                                                            | <i>Haplopappus parryi</i>                              | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| MAPIP4      | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> | Native | Sexual            | C3                  | Autotrophic | May     | July     | October   |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                              | Native | Sexual            | C3                  | Autotrophic |         |          |           |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                    |        |                   |                     |             |         |          |           |
| HEOB        | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                            |        |                   |                     |             |         |          |           |
| HEPU12      | <i>Hedeoma pulcherrima</i>                                                        | <i>Hedeoma pulcherrima</i>                             |        |                   |                     |             |         |          |           |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>         |        |                   |                     |             |         |          |           |
| HYHO        | <i>Hymenoxys hoopesii</i>                                                         | <i>Helenium hoopesii</i>                               |        |                   |                     |             |         |          |           |
| HEQU2       | <i>Helianthella quinquenervis</i>                                                 | <i>Helianthella quinquenervis</i>                      | Native | Sexual            |                     | Autotrophic | July    | July     | August    |
| HEAN3       | <i>Helianthus annuus</i>                                                          | <i>Helianthus annuus</i>                               | Native | Sexual            | C3                  | Autotrophic | June    | July     | September |
| HEAR8       | <i>Helianthus arizonensis</i>                                                     | <i>Helianthus arizonensis</i>                          |        |                   |                     |             |         |          |           |
| HEPE        | <i>Helianthus petiolaris</i>                                                      | <i>Helianthus petiolaris</i>                           | Native | Sexual            |                     | Autotrophic | May     | July     | September |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i>                          | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i> | Native | Vegetative-Sexual | C3                  | Autotrophic | July    | August   | August    |
| HEMA80      | <i>Heracleum maximum</i>                                                          | <i>Heracleum lanatum</i>                               |        |                   |                     |             |         |          |           |
| HEPA11      | <i>Heuchera parvifolia</i>                                                        | <i>Heuchera parvifolia</i>                             | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |



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|-------------|-------------------------------------------------------|-----------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| HICA4       | <i>Hieracium cameum</i>                               | <i>Hieracium cameum</i>                                   |            |                   |                     |             |         |          |           |
| HIFE        | <i>Hieracium fendleri</i>                             | <i>Hieracium fendleri</i>                                 |            |                   |                     |             |         |          |           |
| HIOD        | <i>Hierochloe odorata</i>                             | <i>Hierochloe odorata</i>                                 |            |                   |                     |             |         |          |           |
| PLJA        | <i>Pleuraphis jamesii</i>                             | <i>Hilaria jamesii</i>                                    | Native     | Vegetative-Sexual |                     | Autotrophic | May     |          | August    |
| HODU        | <i>Holodiscus dumosus</i>                             | <i>Holodiscus dumosus</i>                                 | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| HOBR2       | <i>Hordeum brachyantherum</i>                         | <i>Hordeum brachyantherum</i>                             | Native     | Sexual            |                     | Autotrophic | June    |          | August    |
| HOJU        | <i>Hordeum jubatum</i>                                | <i>Hordeum jubatum</i>                                    | Native     | Sexual            | C3                  | Autotrophic | June    |          | August    |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>         | <i>Humulus americanus</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| HYFE        | <i>Hydrophyllum fendleri</i>                          | <i>Hydrophyllum fendleri</i>                              | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| HYFI        | <i>Hymenopappus filifolius</i>                        | <i>Hymenopappus filifolius</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i> | <i>Hymenopappus flavescens</i> var. <i>canotomentosus</i> |            |                   |                     |             |         |          |           |
| HYNE        | <i>Hymenopappus newberryi</i>                         | <i>Hymenopappus newberryi</i>                             | Native     | Sexual            |                     | Autotrophic |         |          |           |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                       | <i>Hymenopappus tenuifolius</i>                           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TECA2       | <i>Tetradymia canescens</i>                           | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>              | Native     | Sexual            |                     | Autotrophic | May     | July     | August    |
| TEACA       | <i>Tetranneuris acaulis</i> var. <i>arizonica</i>     | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TEACN       | <i>Tetranneuris acaulis</i> var. <i>nana</i>          | <i>Hymenoxys argentea</i>                                 |            |                   |                     |             |         |          |           |
| TEBR        | <i>Tetranneuris brandegei</i>                         | <i>Hymenoxys brandegei</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TEIV        | <i>Tetranneuris ivesiana</i>                          | <i>Hymenoxys ivesiana</i>                                 |            |                   |                     |             |         |          |           |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>  | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| HYNI        | <i>Hyoscyamus niger</i>                               | <i>Hyoscyamus niger</i>                                   | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| HYFO4       | <i>Hypericum formosum</i>                             | <i>Hypericum formosum</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| IPCO3       | <i>Ipomoea coccinea</i>                               | <i>Ipomoea coccinea</i>                                   |            |                   |                     |             |         |          |           |
| IPHE        | <i>Ipomoea hederacea</i>                              | <i>Ipomoea hederacea</i>                                  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>      | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>        | Native     | Sexual            |                     | Autotrophic | May     | June     | September |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>     | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>           |            |                   |                     |             |         |          |           |
| IPLA2       | <i>Ipomopsis laxiflora</i>                            | <i>Ipomopsis laxiflora</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| IPLO2       | <i>Ipomopsis longiflora</i>                           | <i>Ipomopsis longiflora</i>                               | Native     | Sexual            |                     | Autotrophic | April   | May      | July      |
| IPMU3       | <i>Ipomopsis multiflora</i>                           | <i>Ipomopsis multiflora</i>                               |            |                   |                     |             |         |          |           |
| IPPU4       | <i>Ipomopsis pumila</i>                               | <i>Ipomopsis pumila</i>                                   | Native     | Sexual            |                     | Autotrophic | May     | June     | August    |
| IRMI        | <i>Iris missouriensis</i>                             | <i>Iris missouriensis</i>                                 | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| IVAX        | <i>Iva axillaris</i>                                  | <i>Iva axillaris</i>                                      | Native     | Vegetative-Sexual |                     | Autotrophic | May     | July     | September |
| IVXA        | <i>Iva xanthifolia</i>                                | <i>Iva xanthifolia</i>                                    | Native     | Sexual            | C3                  | Autotrophic | May     | July     | September |
| JAAM        | <i>Jamesia americana</i>                              | <i>Jamesia americana</i>                                  | Native     | Sexual            |                     | Autotrophic |         |          |           |

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|-------------|---------------------------------------------------------|---------------------------------------------------|------------|-------------------|---------------------|-------------|---------|-----------|-----------|
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>             | <i>Juncus balticus</i> var. <i>montanus</i>       | Native     | Vegetative-Sexual | C3                  | Autotrophic | May     | July      |           |
| JUBU        | <i>Juncus bufonius</i>                                  | <i>Juncus bufonius</i>                            | Native     | Sexual            |                     | Autotrophic |         |           |           |
| JUCO2       | <i>Juncus confusus</i>                                  | <i>Juncus confusus</i>                            | Native     | Sexual            |                     | Autotrophic |         |           |           |
| JUDR        | <i>Juncus drummondii</i>                                | <i>Juncus drummondii</i>                          | Native     | Sexual            |                     | Autotrophic |         |           |           |
| JUIN2       | <i>Juncus interior</i>                                  | <i>Juncus interior</i>                            | Native     | Sexual            | C3                  | Autotrophic |         |           |           |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>       | <i>Juncus longistylis</i> var. <i>longistylis</i> | Native     | Vegetative-Sexual |                     | Autotrophic | June    | August    |           |
| JUMA4       | <i>Juncus marginatus</i>                                | <i>Juncus marginatus</i>                          | Native     | Vegetative-Sexual |                     | Autotrophic |         |           |           |
| JUME4       | <i>Juncus mexicanus</i>                                 | <i>Juncus mexicanus</i>                           |            |                   |                     |             |         |           |           |
| JUTE        | <i>Juncus tenuis</i>                                    | <i>Juncus tenuis</i>                              | Native     | Sexual            |                     | Autotrophic |         |           |           |
| JUTO        | <i>Juncus torreyi</i>                                   | <i>Juncus torreyi</i>                             | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |           |           |
| JUXI        | <i>Juncus xiphioides</i>                                | <i>Juncus xiphioides</i>                          |            |                   |                     |             |         |           |           |
| JUCO6       | <i>Juniperus communis</i>                               | <i>Juniperus communis</i>                         | Native     | Sexual            | C3                  | Autotrophic |         |           |           |
| JUDE2       | <i>Juniperus deppeana</i>                               | <i>Juniperus deppeana</i>                         |            |                   |                     |             |         |           |           |
| JUMO        | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                       | Native     | Sexual            | C3                  | Autotrophic |         |           |           |
| JUSC2       | <i>Juniperus scopulorum</i>                             | <i>Juniperus scopulorum</i>                       | Native     | Sexual            |                     | Autotrophic |         |           |           |
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>                  | Native     | Sexual            |                     | Autotrophic |         |           |           |
| KOSC        | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                            | Introduced | Sexual            | C4                  | Autotrophic | June    | July      | October   |
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                          | Native     | Sexual            | C3                  | Autotrophic |         |           |           |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                             | Native     | Sexual-Apomicitic |                     | Autotrophic |         |           |           |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                         |            |                   |                     |             | July    | September | September |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                         | Native     | Sexual            |                     | Autotrophic | June    | July      | August    |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                       | Native     | Sexual            |                     | Autotrophic |         |           |           |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                        | Native     | Sexual            |                     | Autotrophic |         |           |           |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                          |            |                   |                     |             |         |           |           |
| LASE        | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                           | Introduced | Sexual            | C3                  | Autotrophic | July    | August    | September |
| LABI        | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                            |            |                   |                     |             |         |           |           |
| LASQ        | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                           | Introduced | Sexual            | C3                  | Autotrophic | May     | May       | August    |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                          | Native     | Sexual            | C3                  | Autotrophic | April   | June      | August    |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                             |            |                   |                     |             |         |           |           |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus arizonicus</i>                        | Native     | Sexual            |                     | Autotrophic |         |           |           |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus leucanthus</i>                        | Native     | Sexual            |                     | Autotrophic | May     | June      | August    |
| LEOR        | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                          | Introduced | Vegetative-Sexual | C3                  | Autotrophic | July    |           | September |
| LEMI3       | <i>Lemna minor</i>                                      | <i>Lemna minor</i>                                | Native     | Vegetative-Sexual | C3                  | Autotrophic | June    |           | October   |

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|-------------|--------------------------------------------------|---------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>    | <i>Lepidium medium</i> var. <i>pubescens</i>      |            |                   |                     |             |         |          |           |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i> | <i>Lepidium medium</i> var. <i>medium</i>         |            |                   |                     |             |         |          |           |
| LEFE        | <i>Lesquerella fendleri</i>                      | <i>Lesquerella fendleri</i>                       |            |                   |                     |             |         |          |           |
| LEIN3       | <i>Lesquerella intermedia</i>                    | <i>Lesquerella intermedia</i>                     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| LERE3       | <i>Lesquerella rectipes</i>                      | <i>Lesquerella rectipes</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| CHER2       | <i>Chaetopappa ericoides</i>                     | <i>Leucelene ericoides</i>                        | Native     | Sexual            | C3                  | Autotrophic | May     | June     | July      |
| LIPU        | <i>Liatris punctata</i>                          | <i>Liatris punctata</i>                           | Native     | Vegetative-Sexual | C3                  | Autotrophic | August  | August   | September |
| LIPO        | <i>Ligusticum porteri</i>                        | <i>Ligusticum porteri</i>                         | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i> | <i>Lilium umbellatum</i>                          |            |                   |                     |             |         |          |           |
| LIAQ        | <i>Limosella aquatica</i>                        | <i>Limosella aquatica</i>                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| LIVU2       | <i>Linaria vulgaris</i>                          | <i>Linaria vulgaris</i>                           | Introduced | Vegetative-Sexual | C3                  | Autotrophic | June    | June     | August    |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>       | <i>Linum aristatum</i> var. <i>australe</i>       |            |                   |                     |             |         |          |           |
| LILE3       | <i>Linum lewisii</i>                             | <i>Linum lewisii</i>                              | Native     | Sexual            |                     | Autotrophic | May     | June     | August    |
| LINE        | <i>Linum neomexicanum</i>                        | <i>Linum neomexicana</i>                          |            |                   |                     |             |         |          |           |
| LIPU4       | <i>Linum puberulum</i>                           | <i>Linum puberulum</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| LIRI        | <i>Linum rigidum</i>                             | <i>Linum rigidum</i> "complex"                    |            |                   |                     |             |         |          |           |
| LICO7       | <i>Lithospermum cobrense</i>                     | <i>Lithospermum cobrense</i>                      |            |                   |                     |             |         |          |           |
| LIIN2       | <i>Lithospermum incisum</i>                      | <i>Lithospermum incisum</i>                       | Native     | Sexual            | C3                  | Autotrophic | June    | June     | June      |
| LIMU3       | <i>Lithospermum multiflorum</i>                  | <i>Lithospermum multiflorum</i>                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>   | <i>Lobelia cardinalis</i> subsp. <i>graminae</i>  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| LOPE        | <i>Lolium perenne</i>                            | <i>Lolium perenne</i>                             | Introduced | Sexual            | C3                  | Autotrophic | June    |          | August    |
| LOIN5       | <i>Lonicera involucrata</i>                      | <i>Lonicera involucrata</i>                       | Native     | Sexual            |                     | Autotrophic | May     | June     | August    |
| LOWR        | <i>Lotus wrightii</i>                            | <i>Lotus wrightii</i>                             | Native     | Sexual            |                     | Autotrophic |         |          |           |
| LUAL5       | <i>Lupinus X alpestris</i>                       | <i>Lupinus alpestris</i>                          |            |                   |                     |             |         |          |           |
| LUAM        | <i>Lupinus ammophilus</i>                        | <i>Lupinus ammophilus</i>                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| LUAR3       | <i>Lupinus argenteus</i>                         | <i>Lupinus argenteus</i>                          | Native     | Sexual            |                     | Autotrophic | May     | July     | September |
| LUBR2       | <i>Lupinus brevicaulis</i>                       | <i>Lupinus brevicaulis</i>                        |            |                   |                     |             |         |          |           |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>  | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> | Native     | Sexual            |                     | Autotrophic | May     | June     | September |
| LUKI        | <i>Lupinus kingii</i>                            | <i>Lupinus kingii</i>                             | Native     | Sexual            |                     | Autotrophic | June    | July     | July      |
| LUPU        | <i>Lupinus pusillus</i>                          | <i>Lupinus pusillus</i>                           | Native     | Sexual            |                     | Autotrophic | May     | May      | August    |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i> | <i>Lupinus rubricaulis</i>                        |            |                   |                     |             |         |          |           |
| LUPA4       | <i>Luzula parviflora</i>                         | <i>Luzula parviflora</i>                          | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| LYPA        | <i>Lycium pallidum</i>                           | <i>Lycium pallidum</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| LYAM        | <i>Lycopus americanus</i>                        | <i>Lycopus americanus</i>                         | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| LYPH        | <i>Lycurus phleoides</i>                         | <i>Lycurus phleoides</i>                          | Native     | Sexual            | C4                  | Autotrophic |         |          |           |

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|-------------|--------------------------------------------------------------------------|----------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| PSAS2       | <i>Psilactis asteroides</i>                                              | <i>Machaeranthera amplifolia</i>                   |            |                   |                     |             |         |          |           |
| MABI        | <i>Machaeranthera bigelovii</i>                                          | <i>Machaeranthera bigelovii</i>                    | Native     | Sexual            |                     | Autotrophic | June    | August   | October   |
| MACA2       | <i>Machaeranthera canescens</i>                                          | <i>Machaeranthera canescens</i>                    | Native     | Sexual            |                     | Autotrophic | July    | August   | September |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>                | Native     | Sexual            | C3                  | Autotrophic | May     | June     | September |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                    |            |                   |                     |             |         |          |           |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                        |            |                   |                     |             |         |          |           |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                              |            |                   |                     |             |         |          |           |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                             | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                            | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                        |            |                   |                     |             |         |          |           |
| MAVU        | <i>Marrubium vulgare</i>                                                 | <i>Marrubium vulgare</i>                           | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                       | <i>Maurandya antirrhiniflora</i>                   |            |                   |                     |             |         |          |           |
| MELU        | <i>Medicago lupulina</i>                                                 | <i>Medicago lupulina</i>                           | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| MESA        | <i>Medicago sativa</i>                                                   | <i>Medicago sativa</i>                             | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| MELE2       | <i>Melampodium leucanthum</i>                                            | <i>Melampodium leucanthum</i>                      | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| MEPO        | <i>Melica porteri</i>                                                    | <i>Melica porteri</i>                              | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus albus</i>                             | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| MEIN2       | <i>Melilotus indicus</i>                                                 | <i>Melilotus indicus</i>                           | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus officinalis</i>                       | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| MESC        | <i>Menodora scabra</i>                                                   | <i>Menodora scabra</i>                             | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| MEAR4       | <i>Mentha arvensis</i>                                                   | <i>Mentha arvensis</i>                             | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| MEAL6       | <i>Mentzelia albicaulis</i>                                              | <i>Mentzelia albicaulis</i>                        | Native     | Sexual            | C3                  | Autotrophic | May     | June     | July      |
| MELA        | <i>Mentzelia laciniata</i>                                               | <i>Mentzelia laciniata</i>                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>                                | <i>Mentzelia nuda</i> var. <i>stricta</i>          | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>                               | <i>Mentzelia pumila</i> var. <i>integra</i>        |            |                   |                     |             |         |          |           |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>                          | <i>Mentzelia pumila</i> var. <i>multiflora</i>     |            |                   |                     |             |         |          |           |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                       | <i>Mentzelia pumila</i> var. <i>pumila</i>         | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| MERU        | <i>Mentzelia rusbyi</i>                                                  | <i>Mentzelia rusbyi</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MEBR        | <i>Mertensia brevistyla</i>                                              | <i>Mertensia brevistyla</i>                        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MEFR2       | <i>Mertensia franciscana</i>                                             | <i>Mertensia franciscana</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i>                          | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                       | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | Native     | Vegetative-Sexual |                     | Autotrophic | May     | July     | September |

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|-------------|------------------------------------------------------------------------|------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| URLI2       | <i>Uropappus linearifolius</i>                                         | <i>Microseris linearifolia</i>                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
|             |                                                                        | <i>Microseris minimus</i>                      |            |                   |                     |             |         |          |           |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                             | <i>Microsteris gracilis</i>                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MIFL2       | <i>Mimulus floribundus</i>                                             | <i>Mimulus floribundus</i>                     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                           | <i>Mimulus glabratus</i> var. <i>fremontii</i> | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| MIGU        | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                        | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                      |            |                   |                     |             |         |          |           |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                    |            |                   |                     |             |         |          |           |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                    |            |                   |                     |             |         |          |           |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                    | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                | Native     | Vegetative-Sexual | C4                  | Autotrophic | July    |          | August    |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                 |            |                   |                     |             |         |          |           |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                   | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                    | Native     | Sexual            |                     | Autotrophic | July    |          | September |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                 |            |                   |                     |             |         |          |           |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                    | Native     | Sexual            |                     | Autotrophic | July    |          | September |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                |            |                   |                     |             |         |          |           |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                   | Native     | Vegetative-Sexual | C4                  | Autotrophic | July    |          | September |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                     |            |                   |                     |             |         |          |           |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia torreyi</i>                    | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolffii</i>                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                        | Native     | Sexual            | C3                  | Autotrophic | June    |          | September |
|             |                                                                        | <i>Myosurus minimus</i>                        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| NAHI        | <i>Nama hispidum</i>                                                   | <i>Nama hispidum</i> var. <i>hispidum</i>      | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| NECA2       | <i>Nepeta cataria</i>                                                  | <i>Nepeta cataria</i>                          | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| NIAT        | <i>Nicotiana attenuata</i>                                             | <i>Nictotiana attenuata</i>                    | Native     | Sexual            |                     | Autotrophic |         |          |           |

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|-------------|-----------------------------------------------------|----------------------------------------------------|--------|-------------------|---------------------|-------------|---------|----------|-----------|
| NOMI        | <i>Nolina microcarpa</i>                            | <i>Nolina microcarpa</i>                           | Native | Sexual            |                     | Autotrophic |         |          |           |
| NOTHO       | <i>Notholaena</i>                                   | <i>Notholaena</i> spp.                             |        |                   |                     |             |         |          |           |
| NOST        | <i>Notholaena standleyi</i>                         | <i>Notholaena standleyi</i>                        | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| OEAL        | <i>Oenothera albicaulis</i>                         | <i>Oenothera albicaulis</i>                        | Native | Sexual            | C3                  | Autotrophic | May     | May      | August    |
| OECE2       | <i>Oenothera cespitosa</i>                          | <i>Oenothera caespitosa</i>                        | Native | Sexual            | C3                  | Autotrophic | June    | June     | September |
| OECEM3      | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i> | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>   | Native | Sexual            | C3                  | Autotrophic |         |          |           |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>    | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  | Native | Sexual            | C3                  | Autotrophic | May     | June     | August    |
| OECO2       | <i>Oenothera coronopifolia</i>                      | <i>Oenothera coronopifolia</i>                     | Native | Vegetative-Sexual |                     | Autotrophic | May     | June     | September |
| OEFL        | <i>Oenothera flava</i>                              | <i>Oenothera flava</i>                             | Native | Sexual            |                     | Autotrophic |         |          |           |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>          | <i>Oenothera hookeri</i>                           | Native | Sexual            |                     | Autotrophic |         |          |           |
| OELA        | <i>Oenothera laciniata</i>                          | <i>Oenothera laciniata</i> var. <i>laciniata</i>   | Native | Sexual            |                     | Autotrophic |         |          |           |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>        | <i>Oenothera pallida</i> subsp. <i>pallida</i>     | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| OEPR        | <i>Oenothera primiveris</i>                         | <i>Oenothera primiveris</i>                        | Native | Sexual            | C3                  | Autotrophic |         |          |           |
| OPCL        | <i>Opuntia clavata</i>                              | <i>Opuntia clavata</i>                             |        |                   |                     |             |         |          |           |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>        | <i>Opuntia erinacea</i> var. <i>erinacea</i>       | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>       | <i>Opuntia erinacea</i> var. <i>utahensis</i>      | Native | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| OPIM        | <i>Opuntia imbricata</i>                            | <i>Opuntia imbricata</i>                           | Native | Vegetative-Sexual | CAM                 | Autotrophic | May     | June     | July      |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>    | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   |        |                   |                     |             |         |          |           |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>  | <i>Opuntia phaeacantha</i> var. <i>discata</i>     | Native | Vegetative-Sexual | CAM                 | Autotrophic |         |          |           |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>  | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> | Native | Vegetative-Sexual | CAM                 | Autotrophic |         |          |           |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>  | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | Native | Vegetative-Sexual | CAM                 | Autotrophic |         |          |           |
| ORFA        | <i>Orobancha fasciculata</i>                        | <i>Orobancha fasciculata</i> var. <i>lutea</i>     | Native | Sexual            | None                | Parasitic   | May     | June     |           |
| ORLU        | <i>Orobancha ludoviciana</i>                        | <i>Orobancha ludoviciana</i>                       | None   | Sexual            | None                | Parasitic   |         |          |           |
| ORLUM       | <i>Orobancha ludoviciana</i> ssp. <i>multiflora</i> | <i>Orobancha multiflora</i>                        | Native | Sexual            | None                | Parasitic   |         |          |           |
| ORLU2       | <i>Orthocarpus luteus</i>                           | <i>Orthocarpus luteus</i>                          | Native | Sexual            | C3                  | Autotrophic | June    | July     | September |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                    | <i>Orthocarpus purpureo-albus</i>                  | Native | Sexual            |                     | Autotrophic |         |          |           |
| ORAS        | <i>Oryzopsis asperifolia</i>                        | <i>Oryzopsis asperifolia</i>                       | Native | Sexual            |                     | Autotrophic |         |          |           |
| ACHY        | <i>Achnatherum hymenoides</i>                       | <i>Oryzopsis hymenoides</i>                        | Native | Sexual            | C3                  | Autotrophic | May     |          | July      |
| PIMI7       | <i>Piptatherum micranthum</i>                       | <i>Oryzopsis micrantha</i>                         | Native | Sexual            |                     | Autotrophic | June    |          | August    |
| OSDE        | <i>Osmorhiza depauperata</i>                        | <i>Osmorhiza obtusa</i>                            |        |                   |                     |             |         |          |           |
| OXAL2       | <i>Oxalis alpina</i>                                | <i>Oxalis metcalfei</i>                            |        |                   |                     |             |         |          |           |

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|-------------|-------------------------------------------------------------|----------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| OXVI        | <i>Oxalis violacea</i>                                      | <i>Oxalis violacea</i>                                   | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| MILI3       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i>           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| OXFE        | <i>Oxypolis fendleri</i>                                    | <i>Oxypolis fendleri</i>                                 |            |                   |                     |             |         |          |           |
| OXLA3       | <i>Oxytropis lambertii</i>                                  | <i>Oxytropis lambertii</i>                               | Native     | Sexual            | C3                  | Autotrophic | May     | June     | September |
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                             | Native     | Sexual            |                     | Autotrophic | May     | June     | July      |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                                  |            |                   |                     |             |         |          |           |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i>           | Native     | Sexual            | C4                  | Autotrophic | June    |          | September |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                                   |            |                   |                     |             |         |          |           |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                                 | Introduced | Sexual            | C4                  | Autotrophic | July    |          | August    |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                                   | Native     | Vegetative-Sexual | C4                  | Autotrophic |         |          |           |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                             | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                              |            |                   |                     |             |         |          |           |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                                  | Native     | Vegetative-Sexual | C4                  | Autotrophic | June    |          | September |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                                | Native     |                   | C3                  | Autotrophic |         |          |           |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                            |            |                   |                     |             |         |          |           |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                               | Native     | Sexual            | C4                  | Autotrophic |         |          |           |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                         |            |                   |                     |             |         |          |           |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                              |            |                   |                     |             |         |          |           |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                                  |            |                   |                     |             |         |          |           |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                                 |            |                   |                     |             |         |          |           |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                            |            |                   |                     |             |         |          |           |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>          | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                                 | Native     | Sexual            |                     | Autotrophic | May     | May      | May       |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                                |            |                   |                     |             |         |          |           |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                                  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>      | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> | Native     | Sexual            |                     | Autotrophic |         |          |           |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| PEOL        | <i>Penstemon oliganthus</i>                               | <i>Penstemon oliganthus</i>                               |            |                   |                     |             |         |          |           |
| PERY        | <i>Penstemon rydbergii</i>                                | <i>Penstemon rydbergii</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PESE11      | <i>Penstemon secundiflorus</i>                            | <i>Penstemon secundiflorus</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PEVI4       | <i>Penstemon virgatus</i>                                 | <i>Penstemon virgatus</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PEWH        | <i>Penstemon whippleanus</i>                              | <i>Penstemon whippleanus</i>                              | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| PECA10      | <i>Pericome caudata</i>                                   | <i>Pericome caudata</i>                                   |            |                   |                     |             |         |          |           |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                  | <i>Petalostemum candidum</i>                              |            |                   |                     |             |         |          |           |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                | <i>Petalostemum compactum</i>                             |            |                   |                     |             |         |          |           |
| DAEX2       | <i>Dalea exigua</i>                                       | <i>Petalostemum exile</i>                                 |            |                   |                     |             |         |          |           |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                | <i>Petalostemum purpureum</i>                             |            |                   |                     |             |         |          |           |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                  | <i>Petalostemum villosum</i>                              |            |                   |                     |             |         |          |           |
| PHCO        | <i>Phacelia coerulea</i>                                  | <i>Phacelia coerulea</i>                                  | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>           | <i>Phacelia corrugata</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PHHE2       | <i>Phacelia heterophylla</i>                              | <i>Phacelia heterophylla</i>                              |            |                   |                     |             |         |          |           |
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PHEG        | <i>Phacelia egena</i>                                     | <i>Phacelia magellanica</i>                               |            |                   |                     |             |         |          |           |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            |            |                   |                     |             |         |          |           |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              |            |                   |                     |             |         |          |           |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     | Native     | Sexual            | C3                  | Autotrophic | June    |          | August    |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    | Introduced | Sexual            | C3                  | Autotrophic | June    |          | September |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   | Native     | Vegetative-Sexual |                     | Autotrophic | April   | May      | July      |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             | Native     | Sexual            |                     | Parasitic   |         |          |           |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                |            |                   |                     |             |         |          |           |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           | Native     |                   |                     | Autotrophic |         |          |           |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               | Native     | Sexual            |                     | Autotrophic | May     | June     | September |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PLAR2       | <i>Plantago argyraea</i>                                  | <i>Plantago argyraea</i>                                  |            |                   |                     |             |         |          |           |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |



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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   |            |                   |                     |             |         |          |           |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      | Introduced | Vegetative-Sexual | C3                  | Autotrophic | June    |          | August    |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    | Native     | Vegetative-Sexual |                     | Autotrophic | May     |          | August    |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       |            |                   |                     |             | June    |          | July      |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    |            |                   |                     |             |         |          |           |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     | Native     | Sexual            |                     | Autotrophic | June    |          | July      |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      | Introduced |                   | C3                  | Autotrophic | May     |          | August    |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | Introduced | Vegetative-Sexual | C3                  | Autotrophic | May     |          | August    |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             |            |                   |                     |             |         |          |           |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | Native     | Vegetative-Sexual |                     | Autotrophic | June    | August   | September |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                | Native     | Sexual            | C3                  | Autotrophic | May     | July     | September |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              | Introduced | Sexual            | C3                  | Autotrophic | June    | July     | October   |
| PODO4       | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                | Native     | Sexual            |                     | Autotrophic | June    | August   | September |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>          | <i>Polygonum montanum</i>                                 |            |                   |                     |             |         |          |           |
| POPE3       | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                               | Introduced | Sexual            | C3                  | Autotrophic | July    | July     | September |
| PORA3       | <i>Polygonum ramosissimum</i>                             | <i>Polygonum ramosissimum</i>                             | Native     | Sexual            | C3                  | Autotrophic | June    | July     | September |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i>         | <i>Polygonum sawatchense</i>                              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| POMO5       | <i>Polypogon monspeliensis</i>                            | <i>Polypogon monspeliensis</i>                            | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| POAN3       | <i>Populus angustifolia</i>                               | <i>Populus angustifolia</i>                               | Native     | Vegetative-Sexual |                     | Autotrophic | April   | May      | June      |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>            | <i>Populus fremontii</i> var. <i>wislizenii</i>           | Native     | Vegetative-Sexual |                     | Autotrophic | April   | May      | May       |
| POTR5       | <i>Populus tremuloides</i>                                | <i>Populus tremuloides</i> var. <i>aurea</i>              | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| POOL        | <i>Portulaca oleracea</i>                                 | <i>Portulaca oleracea</i>                                 | Introduced | Sexual            | C4                  | Autotrophic |         |          |           |
| ARAN7       | <i>Argentina anserina</i>                                 | <i>Potentilla anserina</i>                                | Native     | Vegetative-Sexual | C3                  | Autotrophic | May     | June     | August    |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>          | <i>Potentilla arguta</i> subsp. <i>convallaria</i>        | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| POCO13      | <i>Potentilla concinna</i>                                | <i>Potentilla concinna</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| POCR4       | <i>Potentilla crinita</i>                                 | <i>Potentilla crinita</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |

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|-------------|---------------------------------------------------|---------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| PEFL15      | <i>Pentaphylloides floribunda</i>                 | <i>Potentilla fruticosa</i>                       | Native     | Sexual            | C3                  | Autotrophic | June    | July     | September |
| POHI6       | <i>Potentilla hippiana</i>                        | <i>Potentilla hippiana</i>                        | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| PONO3       | <i>Potentilla norvegica</i>                       | <i>Potentilla norvegica</i>                       | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| POPE8       | <i>Potentilla pennsylvanica</i>                   | <i>Potentilla pennsylvanica</i>                   | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| POPU9       | <i>Potentilla pulcherrima</i>                     | <i>Potentilla pulcherrima</i>                     |            |                   |                     |             |         |          |           |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>   | <i>Potentilla thurberi</i> var. <i>thurberi</i>   |            |                   |                     |             |         |          |           |
| PRRU        | <i>Primula rusbyi</i>                             | <i>Primula rusbyi</i>                             |            |                   |                     |             |         |          |           |
| PRVU        | <i>Prunella vulgaris</i>                          | <i>Prunella vulgaris</i>                          | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| PRAM        | <i>Prunus americana</i>                           | <i>Prunus americana</i>                           | Native     | Sexual            | C3                  | Autotrophic | April   | May      | May       |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>   | <i>Prunus emarginata</i> var. <i>emarginata</i>   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>  | <i>Prunus virginiana</i> var. <i>melanocarpa</i>  | Native     | Vegetative-Sexual |                     | Autotrophic | April   | May      | July      |
| PSMO        | <i>Pseudocymopterus montanus</i>                  | <i>Pseudocymopterus montanus</i>                  | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>   | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PSTA        | <i>Psilotrophe tagetina</i>                       | <i>Psilotrophe tagetina</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| PEHYH       | <i>Pedimelum hypogaeum</i> var. <i>hypogaeum</i>  | <i>Psoralea hypogaea</i>                          |            |                   |                     |             |         |          |           |
| PSLA3       | <i>Psoralidium lanceolatum</i>                    | <i>Psoralea lanceolata</i>                        |            |                   |                     |             |         |          |           |
| PSTE5       | <i>Psoralidium tenuiflorum</i>                    | <i>Psoralea tenuiflora</i>                        |            |                   |                     |             |         |          |           |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i> | <i>Ptelea trifoliata</i> susp <i>angustifolia</i> |            |                   |                     |             |         |          |           |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>  | <i>Pteridium aquilinum</i> var. <i>pubescens</i>  | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| PTAN2       | <i>Pterospora andromedea</i>                      | <i>Pterospora andromedea</i>                      | Native     | Sexual            | None                | Saprophytic |         |          |           |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>    | <i>Pulsatilla ludoviciana</i>                     |            |                   |                     |             |         |          |           |
| PUTR2       | <i>Purshia tridentata</i>                         | <i>Purshia tridentata</i>                         | Native     | Sexual            |                     | Autotrophic | April   | June     | July      |
| PYAS        | <i>Pyrola asarifolia</i>                          | <i>Pyrola asarifolia</i>                          | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| PYCH        | <i>Pyrola chlorantha</i>                          | <i>Pyrola chlorantha</i>                          |            |                   |                     |             |         |          |           |
| PYEL        | <i>Pyrola elliptica</i>                           | <i>Pyrola elliptica</i>                           | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| PYMI        | <i>Pyrola minor</i>                               | <i>Pyrola minor</i>                               | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| PYPI2       | <i>Pyrola picta</i>                               | <i>Pyrola picta</i>                               | Native     | Vegetative-Sexual |                     | Saprophytic |         |          |           |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                   | <i>Pyrrhopappus multicaulis</i>                   |            |                   |                     |             |         |          |           |
| QUGA        | <i>Quercus gambelii</i>                           | <i>Quercus gambelii</i>                           | Native     | Sexual            | C3                  | Autotrophic | May     | June     | July      |
| QUGR3       | <i>Quercus grisea</i>                             | <i>Quercus grisea</i>                             | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| QUPU        | <i>Quercus pungens</i>                            | <i>Quercus pungens</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| QUTU2       | <i>Quercus turbinella</i>                         | <i>Quercus turbinella</i>                         | Native     | Sexual            |                     | Autotrophic | June    | June     | June      |
| QUPA4       | <i>Quercus X pauciloba</i>                        | <i>Quercus undulata</i>                           | Native     | Sexual            |                     | Autotrophic |         |          |           |

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|-------------|-----------------------------------------------------------|-------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              |            |                   |                     |             |         |          |           |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   | Native     | Vegetative-Sexual |                     | Autotrophic | May     | July     | September |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       | Native     | Sexual            |                     | Autotrophic |         |          |           |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          |            |                   |                     |             |         |          |           |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           | Native     | Sexual            | C3                  | Autotrophic | June    | July     | September |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               | Native     | Sexual            |                     | Autotrophic |         |          |           |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    | Native     | Vegetative-Sexual | C3                  | Autotrophic | May     | June     | July      |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i>        | <i>Rhus radicans</i>                                  |            |                   |                     |             |         |          |           |
| RHTR        | <i>Rhus trilobata</i>                                     | <i>Rhus trilobata</i>                                 | Native     | Vegetative-Sexual | C3                  | Autotrophic | April   | May      | June      |
| RICE        | <i>Ribes cereum</i>                                       | <i>Ribes cereum</i>                                   | Native     | Sexual            |                     | Autotrophic | April   | May      | August    |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>               | <i>Ribes inebrians</i>                                |            |                   |                     |             |         |          |           |
| RIIN2       | <i>Ribes inerne</i>                                       | <i>Ribes inerne</i>                                   | Native     | Sexual            |                     | Autotrophic | April   | May      | June      |
| RILE        | <i>Ribes leptanthum</i>                                   | <i>Ribes leptanthum</i>                               | Native     | Sexual            |                     | Autotrophic |         |          |           |
| RIMO2       | <i>Ribes montigenum</i>                                   | <i>Ribes montigenum</i>                               | Native     | Sexual            |                     | Autotrophic | May     | July     | August    |
| RIPI        | <i>Ribes pinetorum</i>                                    | <i>Ribes pinetorum</i>                                |            |                   |                     |             |         |          |           |
| RIWO        | <i>Ribes wolfii</i>                                       | <i>Ribes wolfii</i>                                   |            |                   |                     |             |         |          |           |
| RONE        | <i>Robinia neomexicana</i>                                | <i>Robinia neomexicana</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ROIS2       | <i>Rorippa islandica</i>                                  | <i>Rorippa islandica</i>                              |            |                   |                     |             |         |          |           |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                       | <i>Rorippa nasturtium-aquaticum</i>                   | Introduced | Vegetative-Sexual |                     | Autotrophic | May     | July     | August    |
| ROTE2       | <i>Rorippa teres</i>                                      | <i>Rorippa obtusa</i>                                 |            |                   |                     |             |         |          |           |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>femaldiana</i>           | <i>Rorippa palustris</i> subsp. <i>glabra</i>         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>              | <i>Rorippa palustris</i> subsp. <i>hispida</i>        |            |                   |                     |             |         |          |           |
| ROSI2       | <i>Rorippa sinuata</i>                                    | <i>Rorippa sinuata</i>                                | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| ROSY        | <i>Rorippa sylvestris</i>                                 | <i>Rorippa sylvestris</i>                             | Introduced | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>              | <i>Rorippa truncata</i>                               | Native     | Sexual            |                     | Autotrophic |         |          |           |
| RONU        | <i>Rosa nutkana</i>                                       | <i>Rosa nutkana</i>                                   | Native     | Sexual            |                     | Autotrophic | May     | June     | July      |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                   | <i>Rosa woodsii</i> var. <i>arizonica</i>             | Native     | Sexual            |                     | Autotrophic | May     | July     | September |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                   | <i>Rosa woodsii</i> var. <i>fendleri</i>              | Native     | Sexual            |                     | Autotrophic | May     | July     | September |

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|-------------|--------------------------------------------------------|----------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| RUPA        | <i>Rubus parviflorus</i>                               | <i>Rubus parviflorus</i>                                 | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>              | <i>Rubus strigosus</i> var. <i>arizonicus</i>            |            |                   |                     |             |         |          |           |
| RUHI2       | <i>Rudbeckia hirta</i>                                 | <i>Rudbeckia hirta</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| RULA3       | <i>Rudbeckia laciniata</i>                             | <i>Rudbeckia laciniata</i>                               | Native     | Sexual            |                     | Autotrophic | June    | July     | September |
| RUAC3       | <i>Rumex acetosella</i>                                | <i>Rumex acetosella</i>                                  | Introduced | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| RUCR        | <i>Rumex crispus</i>                                   | <i>Rumex crispus</i>                                     | Introduced | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex mexicanus</i>                                   |            |                   |                     |             |         |          |           |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             |            |                   |                     |             |         |          |           |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    | Native     | Sexual            |                     | Autotrophic | May     | June     | August    |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     |            |                   |                     |             |         |          |           |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      | Native     | Vegetative-Sexual | C3                  | Autotrophic | May     | June     | July      |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 | Native     | Vegetative-Sexual |                     | Autotrophic | April   | May      | June      |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  |            |                   |                     |             |         |          |           |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  |            |                   |                     |             |         |          |           |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              |            |                   |                     |             |         |          |           |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |            |                   |                     |             |         |          |           |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                |            |                   |                     |             |         |          |           |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             | Introduced | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           | Native     | Sexual            |                     | Autotrophic | May     | June     | August    |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         | Native     | Sexual            | C4                  | Autotrophic | June    |          | August    |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           | Native     | Vegetative-Sexual | C4                  | Autotrophic |         |          |           |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              |            |                   |                     |             |         |          |           |
| SECO        | <i>Sedum cockerellii</i>                               | <i>Sedum cockerellii</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SEAR3       | <i>Senecio arizonicus</i>                              | <i>Senecio arizonicus</i>                                |            |                   |                     |             |         |          |           |
| SEAT        | <i>Senecio atratus</i>                                 | <i>Senecio atratus</i>                                   | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |

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|-------------|-------------------------------------------------------|----------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>        | <i>Senecio bigelovii</i> var. <i>bigelovii</i>     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SECR        | <i>Senecio crassulus</i>                              | <i>Senecio crassulus</i>                           | Native     | Sexual            |                     | Autotrophic | June    | August   | September |
| SECY        | <i>Senecio cymbalarioides</i>                         | <i>Senecio cymbalarioides</i>                      |            |                   |                     |             |         |          |           |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>        | <i>Senecio douglasii</i> var. <i>longilobus</i>    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougalii</i>    | <i>Senecio eremophilus</i> var. <i>macdougalii</i> |            |                   |                     |             |         |          |           |
| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>                          |            |                   |                     |             |         |          |           |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>                            | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                        | Native     | Vegetative-Sexual |                     | Autotrophic | May     | June     | July      |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>                        | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>                         | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>                        | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>                        | Native     | Sexual            |                     | Autotrophic | July    | August   | September |
| SEWE2       | <i>Senecio wernerifolius</i>                          | <i>Senecio werneriaefolius</i>                     | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                            | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                          |            |                   |                     |             |         |          |           |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                           |            |                   |                     |             |         |          |           |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                        |            |                   |                     |             |         |          |           |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                             | Introduced | Sexual            | C4                  | Autotrophic | June    |          | September |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                           | Introduced | Sexual            |                     | Autotrophic | June    | June     | September |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                             | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                       | Introduced | Sexual            | C3                  | Autotrophic | May     | June     | September |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                            |            |                   |                     |             |         |          |           |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                       |            |                   |                     |             |         |          |           |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                       |            |                   |                     |             |         |          |           |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>                       |            |                   |                     |             |         |          |           |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystrix</i>                            | Native     | Sexual            | C3                  | Autotrophic | May     |          | August    |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>    | <i>Smilacina racemosa</i>                          | Native     | Vegetative-Sexual |                     | Autotrophic | May     | June     | August    |

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|-------------|-----------------------------------------------------------------|-------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| MAST4       | <i>Maianthemum stellatum</i>                                    | <i>Smilacina stellata</i>                             | Native     | Vegetative-Sexual |                     | Autotrophic | May     | May      | June      |
| SOAM        | <i>Solanum americanum</i>                                       | <i>Solanum americanum</i>                             | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| SODO        | <i>Solanum douglasii</i>                                        | <i>Solanum douglasii</i>                              |            |                   |                     |             |         |          |           |
| SOEL        | <i>Solanum elaeagnifolium</i>                                   | <i>Solanum elaeagnifolium</i>                         | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| SOJA        | <i>Solanum jamesii</i>                                          | <i>Solanum jamesii</i>                                | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SOPT3       | <i>Solanum ptychanthum</i>                                      | <i>Solanum nigrum</i>                                 | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| SORO        | <i>Solanum rostratum</i>                                        | <i>Solanum rostratum</i>                              | Native     | Sexual            | C3                  | Autotrophic | June    | July     | September |
| SOSA        | <i>Solanum sarrachoides</i>                                     | <i>Solanum sarachoides</i>                            | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| SOTR        | <i>Solanum triflorum</i>                                        | <i>Solanum triflorum</i>                              | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             |            |                   |                     |             |         |          |           |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     | Native     | Vegetative-Sexual | C2                  | Autotrophic | May     | August   | September |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> |            |                   |                     |             | May     | August   | September |
| SOMO        | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                | Native     | Vegetative-Sexual | C3                  | Autotrophic | July    | August   | October   |
| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          | Native     | Vegetative-Sexual |                     | Autotrophic | July    | August   | September |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               |            |                   |                     |             |         |          |           |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            |            |                   |                     |             |         |          |           |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         |            |                   |                     |             |         |          |           |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              | Introduced | Sexual            |                     | Autotrophic | May     | July     | September |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             | Native     | Vegetative-Sexual | C4                  | Autotrophic | August  |          | September |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SPIN2       | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             | Native     | Sexual            |                     | Autotrophic |         |          |           |

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|-------------|-----------------------------------------------------|-------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| SPIN3       | <i>Sphenopholis intermedia</i>                      | <i>Sphenopholis intermedia</i>      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| SPAI        | <i>Sporobolus airoides</i>                          | <i>Sporobolus airoides</i>          | Native     | Sexual            | C4                  | Autotrophic | June    |          | August    |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i> | <i>Sporobolus asper</i>             | Native     | Sexual            | C4                  | Autotrophic |         |          |           |
| SPCO4       | <i>Sporobolus contractus</i>                        | <i>Sporobolus contractus</i>        | Native     | Sexual            | C4                  | Autotrophic | June    |          | September |
| SPCR        | <i>Sporobolus cryptandrus</i>                       | <i>Sporobolus cryptandrus</i>       | Native     | Sexual            | C4                  | Autotrophic | June    |          | August    |
| SPNE        | <i>Sporobolus nealleyi</i>                          | <i>Sporobolus nealleyi</i>          |            |                   |                     |             |         |          |           |
| SPTE5       | <i>Sporobolus texanus</i>                           | <i>Sporobolus texanus</i>           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| STPA        | <i>Stachys palustris</i>                            | <i>Stachys palustris</i>            | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| STPI        | <i>Stanleya pinnata</i>                             | <i>Stanleya pinnata</i>             | Native     | Sexual            |                     | Autotrophic | June    | June     | August    |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                    | <i>Stellaria jamesiana</i>          | Native     | Vegetative-Sexual |                     | Autotrophic | May     | June     | August    |
| STLO        | <i>Stellaria longifolia</i>                         | <i>Stellaria longifolia</i>         | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| STLO2       | <i>Stellaria longipes</i>                           | <i>Stellaria longipes</i>           | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| STPA4       | <i>Stephanomeria pauciflora</i>                     | <i>Stephanomeria pauciflora</i>     | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| STTE2       | <i>Stephanomeria tenuifolia</i>                     | <i>Stephanomeria tenuifolia</i>     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ACNE5       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>       | <i>Stipa columbiana</i>             | Native     | Sexual            | C3                  | Autotrophic | June    |          | September |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>       | <i>Stipa comata</i>                 | Native     | Sexual            | C3                  | Autotrophic | May     |          | July      |
| ACEM4       | <i>Achnatherum eminens</i>                          | <i>Stipa eminens</i>                |            |                   |                     |             |         |          |           |
| ACLE9       | <i>Achnatherum lettermanii</i>                      | <i>Stipa lettermanii</i>            | Native     | Sexual            |                     | Autotrophic | July    |          | September |
| HENE5       | <i>Hesperostipa neomexicana</i>                     | <i>Stipa neomexicana</i>            | Native     | Sexual            |                     | Autotrophic |         |          |           |
| ACRO7       | <i>Achnatherum robustum</i>                         | <i>Stipa robusta</i>                | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| STCO6       | <i>Streptanthus cordatus</i>                        | <i>Streptanthus cordatus</i>        | Native     | Sexual            |                     | Autotrophic |         |          |           |
| STAM2       | <i>Streptopus amplexifolius</i>                     | <i>Streptopus amplexifolius</i>     | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| FRSP        | <i>Frasera speciosa</i>                             | <i>Swertia radiata</i>              |            |                   |                     |             |         |          |           |
| SYOC        | <i>Symphoricarpos occidentalis</i>                  | <i>Symphoricarpos occidentalis</i>  | Native     | Vegetative-Sexual | C3                  | Autotrophic | June    | July     | August    |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                    | <i>Symphoricarpos oreophilus</i>    | Native     | Vegetative-Sexual |                     | Autotrophic | May     | June     | August    |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                   | <i>Symphoricarpos rotundifolius</i> |            |                   |                     |             |         |          |           |
| TAPA3       | <i>Talinum parviflorum</i>                          | <i>Talinum parviflorum</i>          | Native     | Vegetative-Sexual |                     |             |         |          |           |
| TAGA        | <i>Tamarix gallica</i>                              | <i>Tamarix gallica</i>              |            |                   |                     |             |         |          |           |
| TACH2       | <i>Tamarix chinensis</i>                            | <i>Tamarix pentandra</i>            | Introduced | Vegetative-Sexual |                     | Autotrophic | May     | June     | July      |
| TALA2       | <i>Taraxacum laevigatum</i>                         | <i>Taraxacum laevigatum</i>         | Introduced | Sexual            | C3                  | Autotrophic |         |          |           |
| TAOF        | <i>Taraxacum officinale</i>                         | <i>Taraxacum officinale</i>         | Introduced | Sexual            | C3                  | Autotrophic | April   | June     | August    |

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|-------------|-------------------------------------------------------------|------------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i>                                | Native     | Sexual            |                     | Autotrophic | June    | July     | October   |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i> var. <i>inermis</i>            | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>             | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | Native     | Sexual            |                     | Autotrophic | June    | July     | August    |
| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      | Native     | Sexual            |                     | Autotrophic |         |          |           |
| THME        | <i>Thelesperma megapotamicum</i>                            | <i>Thelesperma megapotamicum</i>                           | Native     | Vegetative-Sexual | C3                  | Autotrophic |         |          |           |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>        | <i>Thelesperma trifidum</i>                                |            |                   |                     |             |         |          |           |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i>  | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> | Native     | Sexual            |                     | Autotrophic |         |          |           |
| THWR        | <i>Thelypodium wrightii</i>                                 | <i>Thelypodium wrightii</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| THMO6       | <i>Thermopsis montana</i>                                   | <i>Thermopsis montanum</i>                                 |            |                   |                     |             |         |          |           |
| THDI4       | <i>Thermopsis divaricarpa</i>                               | <i>Thermopsis pinetorum</i>                                | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>                | <i>Thlaspi alpestre</i>                                    | Introduced | Sexual            | C3                  | Autotrophic | May     | June     | August    |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>          | <i>Torreyochloa pauciflora</i>                             | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| TOAN        | <i>Townsendia annua</i>                                     | <i>Townsendia annua</i>                                    | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TOEX        | <i>Townsendia eximia</i>                                    | <i>Townsendia eximia</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TOFO        | <i>Townsendia formosa</i>                                   | <i>Townsendia formosa</i>                                  |            |                   |                     |             |         |          |           |
| TOIN        | <i>Townsendia incana</i>                                    | <i>Townsendia incana</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TOEX2       | <i>Townsendia exscapa</i>                                   | <i>Townsendia escapa</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TRNE        | <i>Tragia nepetifolia</i>                                   | <i>Tragia nepetaefolia</i>                                 | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TRDU        | <i>Tragopogon dubius</i>                                    | <i>Tragopogon dubius</i>                                   | Introduced | Sexual            | C3                  | Autotrophic | May     | June     | July      |
| TRPR        | <i>Tragopogon pratensis</i>                                 | <i>Tragopogon pratensis</i>                                | Introduced | Sexual            | C3                  | Autotrophic | June    | July     | September |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                               |            |                   |                     |             |         |          |           |
| TRTE        | <i>Tribulus terrestris</i>                                  | <i>Tribulus terrestris</i>                                 | Introduced | Sexual            | C4                  | Autotrophic |         |          |           |
| ERPU8       | <i>Erioneuron pulchellum</i>                                | <i>Tridens pulchellus</i>                                  |            |                   |                     |             |         |          |           |
| TRDA2       | <i>Trifolium dasyphyllum</i>                                | <i>Trifolium dasyphyllum</i>                               | Native     | Sexual            |                     | Autotrophic | June    | July     | September |
| TRHY        | <i>Trifolium hybridum</i>                                   | <i>Trifolium hybridum</i>                                  | Introduced | Vegetative-Sexual |                     | Autotrophic | May     | July     | October   |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>             | <i>Trifolium lacerum</i>                                   |            |                   |                     |             |         |          |           |
| TRPR2       | <i>Trifolium pratense</i>                                   | <i>Trifolium pratense</i>                                  | Introduced | Sexual            |                     | Autotrophic | May     | July     | September |
| TRCA5       | <i>Trifolium campestre</i>                                  | <i>Trifolium procumbens</i>                                | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| TRRE3       | <i>Trifolium repens</i>                                     | <i>Trifolium repens</i>                                    | Introduced | Vegetative-Sexual | C3                  | Autotrophic | May     | August   | August    |
| TRPE4       | <i>Triodanis perfoliata</i>                                 | <i>Triodanis perfoliata</i>                                | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TRMO5       | <i>Trisetum montanum</i>                                    | <i>Trisetum montanum</i>                                   | Native     | Sexual            |                     | Autotrophic |         |          |           |
| TRSP2       | <i>Trisetum spicatum</i>                                    | <i>Trisetum spicatum</i>                                   | Native     | Sexual            |                     | Autotrophic | July    |          | September |
| TYLA        | <i>Typha latifolia</i>                                      | <i>Typha latifolia</i>                                     | Native     | Vegetative-Sexual |                     | Autotrophic | June    | June     | July      |



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|-------------|------------------------------------------------------------|------------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         | Native     | Vegetative-Sexual |                     | Autotrophic | June    | July     | September |
| URGR        | <i>Urtica gracilentia</i>                                  | <i>Urtica gracilentia</i>                            |            |                   |                     |             |         |          |           |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               |            |                   |                     |             |         |          |           |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           | Native     | Sexual            |                     | Autotrophic | June    | July     | July      |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    |            |                   |                     |             |         |          |           |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         | Native     | Sexual            |                     | Autotrophic | July    | August   | August    |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             | Introduced | Sexual            | C3                  | Autotrophic | June    | July     | August    |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         | Native     | Sexual            |                     | Autotrophic |         |          |           |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             |            |                   |                     |             |         |          |           |
| VEMA        | <i>Verbena macdougalii</i>                                 | <i>Verbena macdougalii</i>                           | Native     | Sexual            |                     | Autotrophic |         |          |           |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             | Introduced | Sexual            |                     | Autotrophic |         |          |           |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        | Introduced | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| VEWO2       | <i>Veronica wormsjoldii</i>                                | <i>Veronica wormsjoldii</i>                          | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>               | <i>Vicia americana</i> var. <i>americana</i>         | Native     | Sexual            | C3                  | Autotrophic | April   | June     | August    |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>linearis</i>          |            |                   |                     |             |         |          |           |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>             |            |                   |                     |             |         |          |           |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>           | <i>Vicia exigua</i>                                  |            |                   |                     |             |         |          |           |
| VILE3       | <i>Vicia leucophaea</i>                                    | <i>Vicia leucophaea</i>                              |            |                   |                     |             |         |          |           |
| VICO        | <i>Viguiera cordifolia</i>                                 | <i>Viguiera cordifolia</i>                           |            |                   |                     |             |         |          |           |
| HEMUM       | <i>Helioneris multiflora</i> var. <i>multiflora</i>        | <i>Viguiera multiflora</i>                           |            |                   |                     |             |         |          |           |
| VIAD        | <i>Viola adunca</i>                                        | <i>Viola adunca</i>                                  | Native     | Vegetative-Sexual |                     | Autotrophic | May     | June     | August    |
| VICA4       | <i>Viola canadensis</i>                                    | <i>Viola canadensis</i>                              | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| VISO        | <i>Viola sororia</i>                                       | <i>Viola nephrophylla</i>                            | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| VIPE2       | <i>Viola pedatifida</i>                                    | <i>Viola pedatifida</i>                              | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |

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|-------------|--------------------------------------------------|--------------------------------------------------|------------|-------------------|---------------------|-------------|---------|----------|-----------|
| VIAR2       | <i>Vitis arizonica</i>                           | <i>Vitis arizonica</i> var. <i>arizonica</i>     | Native     | Sexual            |                     | Autotrophic |         |          |           |
| VIVU        | <i>Vitis vulpina</i>                             | <i>Vitis vulpina</i>                             |            |                   |                     |             |         |          |           |
|             |                                                  | <i>Woodsia mexicana</i>                          | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| WOOR        | <i>Woodsia oregana</i>                           | <i>Woodsia oregana</i>                           | Native     | Vegetative-Sexual |                     | Autotrophic |         |          |           |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i> | <i>Xanthium strumarium</i> var. <i>canadense</i> | Introduced | Sexual            | C3                  | Autotrophic | July    | August   | September |
| YUAN2       | <i>Yucca angustissima</i>                        | <i>Yucca angustissima</i>                        | Native     | Sexual            | CAM                 | Autotrophic |         |          |           |
| YUBA        | <i>Yucca baccata</i>                             | <i>Yucca baccata</i>                             | Native     | Sexual            |                     | Autotrophic | June    | June     | September |
| YUGL        | <i>Yucca glauca</i>                              | <i>Yucca glauca</i>                              | Native     | Sexual            |                     | Autotrophic | May     | June     | July      |
| ZIGR        | <i>Zinnia grandiflora</i>                        | <i>Zinnia grandiflora</i>                        | Native     | Sexual            | C3                  | Autotrophic |         |          |           |
| ZIEL2       | <i>Zygadenus elegans</i>                         | <i>Zygadenus elegans</i>                         | Native     | Sexual            | C3                  | Autotrophic | June    | July     | August    |

### Key for heading acronyms and abbreviations:

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

Origin = a determination if a plant has been introduced.

Rep Type = reproduction type.

CO<sup>2</sup> Fix = carbon dioxide fixation.

Troph St = trophic status.

Beg Ant = beginning of anthesis season.

Anthesis = anthesis.

End Ant = ending of anthesis season.



SOIL



Pipsissiwa

SOIL



## SOIL

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Gravel    | Sand      | Sandy Loam | Loam | Clay Loam | Clay      | Dense Clay |
|--------------|------------------------------------------------------|-------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | Poor-Fair | Fair      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| ABLA         | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | Poor-Fair | Poor-Fair | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> |           |           |            |      |           |           |            |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     | Poor-Fair | Poor-Fair | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    |           |           |            |      |           |           |            |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      |           |           |            |      |           |           |            |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   |           |           |            |      |           |           |            |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       |           |           |            |      |           |           |            |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      |           |           |            |      |           |           |            |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor-Fair  |
| AGLL         | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |           |           |            |      |           |           |            |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    |           |           |            |      |           |           |            |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        |           |           |            |      |           |           |            |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   | Poor-Fair | Good-Fair | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |           |           |            |      |           |           |            |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   |           |           |            |      |           |           |            |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         | Poor-Fair | Poor-Fair | Good       | Good | Good      | Fair      | Poor-Fair  |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        | Poor      | Poor-Fair | Fair-Good  | Good | Good      | Good-fair | Fair       |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    |           |           |            |      |           |           |            |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   | Poor      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            |           |           |            |      |           |           |            |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Good | Poor-Fair  |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      | Fair      | Good      | Good       | Good | Good      | Fair      | Poor       |
| AGPE         | <i>Agrostis perennans</i>                            | <i>Agrostis perennans</i>                       |           |           |            |      |           |           |            |
| AGSC5        | <i>Agrostis scabra</i>                               | <i>Agrostis scabra</i>                          |           |           |            |      |           |           |            |
| POVI9        | <i>Polypogon viridis</i>                             | <i>Agrostis semiverticillata</i>                |           |           |            |      |           |           |            |
| AGST2        | <i>Agrostis stolonifera</i>                          | <i>Agrostis stolonifera</i>                     | Poor-Fair | Fair-Good | Good       | Good | Good      | Fair      | Poor       |
| AIAL         | <i>Ailanthus altissima</i>                           | <i>Ailanthus altissima</i>                      |           |           |            |      |           |           |            |
| ALCEO        | <i>Allium cernuum</i> var. <i>obtusum</i>            | <i>Allium cernuum</i> var. <i>obtusum</i>       | Poor-Fair | Fair      | Good       | Good | Good      | Poor      | Poor       |
| ALGE         | <i>Allium geyeri</i>                                 | <i>Allium geyeri</i>                            |           |           |            |      |           |           |            |
| ALMA4        | <i>Allium macropetalum</i>                           | <i>Allium macropetalum</i>                      |           |           |            |      |           |           |            |
| ALTE         | <i>Allium textile</i>                                | <i>Allium textile</i>                           | Poor      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| ALOB2        | <i>Alnus oblongifolia</i>                            | <i>Alnus oblongifolia</i>                       |           |           |            |      |           |           |            |
| ALINT        | <i>Alnus incana</i> ssp. <i>tenuifolia</i>           | <i>Alnus tenuifolia</i>                         | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |

\* A key for heading acronyms and abbreviations is on the last page of this table.

## SOIL CON'T

| USDA Symbol            | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                              | Gravel | Sand | Sandy Loam | Loam      | Clay Loam | Clay      | Dense Clay |
|------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------|--------|------|------------|-----------|-----------|-----------|------------|
| ALAE                   | <i>Alopecurus aequalis</i>                                                             | <i>Alopecurus aequalis</i>                              |        |      |            |           |           |           |            |
| ALRO3                  | <i>Alcea rosea</i>                                                                     | <i>Althaea rosea</i>                                    |        |      |            |           |           |           |            |
| AMAL                   | <i>Amaranthus albus</i>                                                                | <i>Amaranthus albus</i>                                 |        |      |            |           |           |           |            |
| AMAL;<br>AMBL          | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>                            |        |      |            |           |           |           |            |
| AMHY                   | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                              |        |      |            |           |           |           |            |
| AMHY2                  | <i>Amaranthus hypochondriacus</i> L.                                                   | <i>Amaranthus leucocarpus</i>                           |        |      |            |           |           |           |            |
| AMPA                   | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                               |        |      |            |           |           |           |            |
| AMPO2                  | <i>Amaranthus powellii</i> S. Wats.                                                    | <i>Amaranthus powellii</i>                              |        |      |            |           |           |           |            |
| AMRE                   | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>                           | Poor   | Fair | Good       | Good      | Good      | Fair      | Poor       |
| AMAR;<br>AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                               |        |      |            |           |           |           |            |
| AMAR2                  | <i>Ambrosia artemisiifolia</i>                                                         | <i>Ambrosia artemisiifolia</i>                          | Fair   | Fair | Good       | Good      | Good      | Good      | Fair       |
| AMPS                   | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>                            | Poor   | Fair | Good       | Good      | Good      | Fair      | Poor       |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier bakeri</i>                               |        |      |            |           |           |           |            |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier oreophila</i>                            |        |      |            |           |           |           |            |
| AMPU5                  | <i>Amelanchier pumila</i>                                                              | <i>Amelanchier polycarpa</i>                            |        |      |            |           |           |           |            |
| AMUT                   | <i>Amelanchier utahensis</i>                                                           | <i>Amelanchier utahensis</i>                            | Fair   | Fair | Good       | Good      | Good      | Fair      | Poor       |
| AMCA6                  | <i>Amorpha canescens</i>                                                               | <i>Amorpha canescens</i>                                | Fair   | Fair | Good       | Good      | Fair      | Poor      | Poor       |
| AMFR                   | <i>Amorpha fruticosa</i>                                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i>       | Poor   | Poor | Good       | Good      | Good      | Fair      | Poor       |
| AMNA                   | <i>Amorpha nana</i>                                                                    | <i>Amorpha nana</i>                                     |        |      |            |           |           |           |            |
| ANAR                   | <i>Anagallis arvensis</i>                                                              | <i>Anagallis arvensis</i>                               |        |      |            |           |           |           |            |
| ANMA                   | <i>Anaphalis margaritacea</i>                                                          | <i>Anaphalis margaritacea</i>                           | Fair   | Fair | Good       | Good      | Fair-Good | Poor-Fair | Poor       |
| BOBAB                  | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>                                  | <i>Andropogon barbinodis</i>                            |        |      |            |           |           |           |            |
| ANGE                   | <i>Andropogon gerardii</i>                                                             | <i>Andropogon gerardii</i>                              | Poor   | Fair | Good       | Good      | Good      | Fair      | Poor       |
| ANHA                   | <i>Andropogon hallii</i>                                                               | <i>Andropogon hallii</i>                                | Poor   | Good | Fair-Good  | Poor-Good | Poor-Fair | Poor      | Poor       |
| BOSA                   | <i>Bothriochloa saccharoides</i>                                                       | <i>Andropogon saccharoides</i>                          |        |      |            |           |           |           |            |
| SCSCS2                 | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>                                   | <i>Andropogon scoparius</i>                             | Fair   | Good | Good       | Good      | Fair      | Poor      | Poor       |
| BOSP3                  | <i>Bothriochloa springfieldii</i>                                                      | <i>Andropogon springfieldii</i>                         |        |      |            |           |           |           |            |
| BOWR2                  | <i>Bothriochloa wrightii</i>                                                           | <i>Andropogon wrightii</i>                              |        |      |            |           |           |           |            |
| ANSES4                 | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>                                | <i>Androsace septentrionalis</i> var. <i>subulifera</i> |        |      |            |           |           |           |            |
| ANCY                   | <i>Anemone cylindrica</i>                                                              | <i>Anemone cylindrica</i>                               |        |      |            |           |           |           |            |
| ANPI2                  | <i>Angelica pinnata</i>                                                                | <i>Angelica pinnata</i>                                 |        |      |            |           |           |           |            |
| ANCR2                  | <i>Anoda cristata</i>                                                                  | <i>Anoda cristata</i> var. <i>digitata</i>              |        |      |            |           |           |           |            |
| ANMA5                  | <i>Antennaria marginata</i>                                                            | <i>Antennaria marginata</i>                             |        |      |            |           |           |           |            |
| ANPA4                  | <i>Antennaria parvifolia</i>                                                           | <i>Antennaria parvifolia</i>                            |        |      |            |           |           |           |            |

# SOIL CON'T

| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Gravel    | Sand      | Sandy Loam | Loam | Clay Loam | Clay      | Dense Clay |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| ANRO2       | <i>Antennaria rosea</i>                                       | <i>Antennaria rosea</i>                                       | Fair      | Fair      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| ANRO3       | <i>Antennaria rosulata</i>                                    | <i>Antennaria rosulata</i>                                    |           |           |            |      |           |           |            |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               |           |           |            |      |           |           |            |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> |           |           |            |      |           |           |            |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            | Poor-Fair | Good-Fair | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            |           |           |            |      |           |           |            |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     |           |           |            |      |           |           |            |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   |           |           |            |      |           |           |            |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   |           |           |            |      |           |           |            |
| AQTR        | <i>Aquilegia tritemata</i>                                    | <i>Aquilegia tritemata</i>                                    |           |           |            |      |           |           |            |
| ARDI2       | <i>Arabis X divaricarpa</i>                                   | <i>Arabis divaricarpa</i>                                     |           |           |            |      |           |           |            |
| ARDR        | <i>Arabis drummondii</i>                                      | <i>Arabis drummondii</i>                                      | Poor-Fair | Poor-Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | <i>Arabis fendleri</i> var. <i>fendleri</i>                   |           |           |            |      |           |           |            |
| ARGL        | <i>Arabis glabra</i>                                          | <i>Arabis glabra</i>                                          |           |           |            |      |           |           |            |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                  | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                  |           |           |            |      |           |           |            |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | <i>Arabis holboellii</i> var. <i>retrofracta</i>              |           |           |            |      |           |           |            |
| ARPE2       | <i>Arabis perennans</i>                                       | <i>Arabis perennans</i>                                       |           |           |            |      |           |           |            |
| ARRA        | <i>Aralia racemosa</i>                                        | <i>Aralia racemosa</i>                                        |           |           |            |      |           |           |            |
| ARDI3       | <i>Arceuthobium divaricatum</i>                               | <i>Arceuthobium divaricatum</i>                               |           |           |            |      |           |           |            |
| ARDO        | <i>Arceuthobium douglasii</i>                                 | <i>Arceuthobium douglasii</i>                                 |           |           |            |      |           |           |            |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodium</i>        | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodium</i>      |           |           |            |      |           |           |            |
| ARPU5       | <i>Arctostaphylos pungens</i>                                 | <i>Arctostaphylos pungens</i>                                 |           |           |            |      |           |           |            |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                                | <i>Arctostaphylos uva-ursi</i>                                | Fair      | Fair      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>                 | <i>Arenaria confusa</i>                                       |           |           |            |      |           |           |            |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               |           |           |            |      |           |           |            |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 | Fair-Good | Fair-Good | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| MOMA3       | <i>Moehringia macrophylla</i>                                 | <i>Arenaria macrophylla</i>                                   |           |           |            |      |           |           |            |
| ARAD        | <i>Aristida adscensionis</i>                                  | <i>Aristida adscensionis</i>                                  |           |           |            |      |           |           |            |
| ARAR6       | <i>Aristida arizonica</i>                                     | <i>Aristida arizonica</i>                                     |           |           |            |      |           |           |            |
| ARHA3       | <i>Aristida havardii</i>                                      | <i>Aristida barbata</i>                                       |           |           |            |      |           |           |            |
| ARDI5       | <i>Aristida divaricata</i>                                    | <i>Aristida divaricata</i>                                    |           |           |            |      |           |           |            |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>              | <i>Aristida fendleriana</i>                                   |           |           |            |      |           |           |            |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>                | <i>Aristida longiseta</i>                                     | Poor-Fair | Fair      | Good       | Good | Fair      | Poor-Fair | Poor       |
| ARPU9       | <i>Aristida purpurea</i>                                      | <i>Aristida purpurea</i>                                      |           |           |            |      |           |           |            |
| ARBI3       | <i>Artemisia bigelovii</i>                                    | <i>Artemisia bigelovii</i>                                    | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>              | <i>Artemisia campestris</i> subsp. <i>pacifica</i>            |           |           |            |      |           |           |            |
| ARCA13      | <i>Artemisia cana</i>                                         | <i>Artemisia cana</i>                                         | Poor      | Fair      | Good       | Good | Good      | Poor      | Poor       |

## SOIL CON'T

| USDA Symbol | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                             | Gravel    | Sand      | Sandy Loam | Loam      | Clay Loam | Clay      | Dense Clay |
|-------------|------------------------------------------------------|--------------------------------------------------------|-----------|-----------|------------|-----------|-----------|-----------|------------|
| ARCA14      | <i>Artemisia carruthii</i>                           | <i>Artemisia carruthii</i>                             |           |           |            |           |           |           |            |
| ARDR4       | <i>Artemisia dracunculus</i>                         | <i>Artemisia dracunculus</i>                           | Poor-Fair | Good      | Good       | Good      | Good      | Poor-Fair | Poor       |
| ARFI2       | <i>Artemisia filifolia</i>                           | <i>Artemisia filifolia</i>                             | Poor-Fair | Good      | Fair-Good  | Poor-Good | Poor      | Poor      | Poor       |
| ARFR3       | <i>Artemisia franserioides</i>                       | <i>Artemisia franserioides</i>                         |           |           |            |           |           |           |            |
| ARFR4       | <i>Artemisia frigida</i>                             | <i>Artemisia frigida</i>                               | Fair-Good | Fair-Good | Good       | Good      | Good      | Poor-Fair | Poor       |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>      | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>      |           |           |            |           |           |           |            |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> | Fair-Good | Fair-Good | Good       | Good      | Good      | Poor-Fair | Poor       |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>    |           |           |            |           |           |           |            |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>     | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>    |           |           |            |           |           |           |            |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>    | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>     |           |           |            |           |           |           |            |
| ARTR2       | <i>Artemisia tridentata</i>                          | <i>Artemisia tridentata</i>                            | Poor      | Fair      | Good       | Good      | Good      | Fair      | Poor       |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>       | <i>Asclepias asperula</i> subsp. <i>asperula</i>       |           |           |            |           |           |           |            |
| ASEN        | <i>Asclepias engelmanniana</i>                       | <i>Asclepias engelmanniana</i>                         |           |           |            |           |           |           |            |
| ASIN14      | <i>Asclepias involucrata</i>                         | <i>Asclepias involucrata</i>                           |           |           |            |           |           |           |            |
| ASMA        | <i>Asclepias macrotis</i>                            | <i>Asclepias macrotis</i>                              |           |           |            |           |           |           |            |
| ASSP        | <i>Asclepias speciosa</i>                            | <i>Asclepias speciosa</i>                              | Poor      | Fair      | Good       | Good      | Good      | Poor-Fair | Poor       |
| ASSU2       | <i>Asclepias subverticillata</i>                     | <i>Asclepias subverticillata</i>                       | Poor      | Fair      | Good       | Good      | Good      | Fair      | Poor       |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>       | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>     |           |           |            |           |           |           |            |
| ASVI        | <i>Asclepias viridiflora</i>                         | <i>Asclepias viridiflora</i>                           |           |           |            |           |           |           |            |
| ASOF        | <i>Asparagus officinalis</i>                         | <i>Asparagus officinalis</i>                           |           |           |            |           |           |           |            |
| ASTR2       | <i>Asplenium trichomanes</i>                         | <i>Asplenium trichomanes</i>                           |           |           |            |           |           |           |            |
| ASER3       | <i>Aster ericoides</i>                               | <i>Aster ericoides</i>                                 | Poor      | Fair      | Good       | Good      | Good      | Poor-Fair | Poor       |
| ASFE        | <i>Aster fendleri</i>                                | <i>Aster fendleri</i>                                  |           |           |            |           |           |           |            |
| ASFO        | <i>Aster foliaceus</i>                               | <i>Aster foliaceus</i>                                 | Fair      | Fair      | Good       | Good      | Good      | Fair      | Poor       |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>         | <i>Aster glaucodes</i> var. <i>glaucodes</i>           |           |           |            |           |           |           |            |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>       | <i>Aster hesperius</i>                                 |           |           |            |           |           |           |            |
| ASLA5       | <i>Aster laevis</i>                                  | <i>Aster laevis</i>                                    |           |           |            |           |           |           |            |
| ASNO        | <i>Aster novae-angliae</i>                           | <i>Aster novae-angliae</i>                             |           |           |            |           |           |           |            |
| ASOC        | <i>Aster occidentalis</i>                            | <i>Aster occidentalis</i>                              |           |           |            |           |           |           |            |
| ALPA14      | <i>Almutaster pauciflorus</i>                        | <i>Aster pauciflorus</i>                               |           |           |            |           |           |           |            |
| ASPR2       | <i>Aster praealtus</i>                               | <i>Aster praealtus</i>                                 |           |           |            |           |           |           |            |
| ASAG2       | <i>Astragalus agrestis</i>                           | <i>Astragalus agrestis</i>                             |           |           |            |           |           |           |            |
| ASAM5       | <i>Astragalus amphioxys</i>                          | <i>Astragalus amphioxys</i>                            |           |           |            |           |           |           |            |
| ASBI2       | <i>Astragalus bisulcatus</i>                         | <i>Astragalus bisulcatus</i>                           | Poor-Fair | Poor-Fair | Fair-Good  | Good      | Good      | Fair      | Poor-Fair  |
| ASCR2       | <i>Astragalus crassicaupus</i>                       | <i>Astragalus crassicaupus.</i>                        |           |           |            |           |           |           |            |
| ASEM2       | <i>Astragalus emoryanus</i>                          | <i>Astragalus emoryanus</i>                            |           |           |            |           |           |           |            |
| ASFL2       | <i>Astragalus flexuosus</i>                          | <i>Astragalus flexuosus</i>                            | Poor      | Poor      | Good       | Good      | Good      | Poor      | Poor       |
| ASGR3       | <i>Astragalus gracilis</i>                           | <i>Astragalus gracilis</i>                             |           |           |            |           |           |           |            |
| ASHU2       | <i>Astragalus humistratus</i>                        | <i>Astragalus humistratus</i>                          |           |           |            |           |           |           |            |

# SOIL CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                                | Gravel    | Sand | Sandy Loam | Loam | Clay Loam | Clay      | Dense Clay |
|-------------|-------------------------------------------------------------|-----------------------------------------------------------|-----------|------|------------|------|-----------|-----------|------------|
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>      | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     |           |      |            |      |           |           |            |
| ASLE8       | <i>Astragalus lentiginosus</i>                              | <i>Astragalus lentiginosus</i>                            |           |      |            |      |           |           |            |
| ASLO3       | <i>Astragalus lonchocarpus</i>                              | <i>Astragalus lonchocarpus</i>                            |           |      |            |      |           |           |            |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i>   | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | Fair      | Fair | Good       | Good | Fair      | Poor      | Poor       |
| ASMO7       | <i>Astragalus mollissimus</i>                               | <i>Astragalus mollissimus</i>                             | Poor      | Poor | Good       | Good | Good      | Fair      | Poor       |
| ASPR5       | <i>Astragalus praelongus</i>                                | <i>Astragalus praelongus</i>                              |           |      |            |      |           |           |            |
| ASSH3       | <i>Astragalus shortianus</i>                                | <i>Astragalus shortianus</i>                              |           |      |            |      |           |           |            |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>         | <i>Athyrium filix-femina</i> var. <i>californicum</i>     |           |      |            |      |           |           |            |
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                                 | Poor-Fair | Fair | Good       | Good | Good      | Fair-Good | Poor-Fair  |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                                    | Poor      | Fair | Good       | Good | Good      | Good      | Fair       |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                                    |           |      |            |      |           |           |            |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                                     |           |      |            |      |           |           |            |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                                  |           |      |            |      |           |           |            |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                                 |           |      |            |      |           |           |            |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                               |           |      |            |      |           |           |            |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                                | Fair      | Fair | Good       | Good | Good      | Good      | Fair       |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                              | Fair      | Good | Good       | Good | Good      | Fair      | Fair       |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                                  | Poor      | Poor | Good       | Good | Good      | Poor      | Poor       |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                                    |           |      |            |      |           |           |            |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                                 |           |      |            |      |           |           |            |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                      |           |      |            |      |           |           |            |
| BEPL        | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                               |           |      |            |      |           |           |            |
| BEOC2       | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                                | Poor-Fair | Fair | Good       | Good | Good      | Poor-Fair | Poor-Fair  |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                                   |           |      |            |      |           |           |            |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>             |           |      |            |      |           |           |            |
| BICE        | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                      |           |      |            |      |           |           |            |
| BITR        | <i>Bidens tripartita</i>                                    | <i>Bidens cosmosa</i>                                     |           |      |            |      |           |           |            |
| BIFR        | <i>Bidens frondosa</i>                                      | <i>Bidens frondosa</i>                                    |           |      |            |      |           |           |            |
| BLTR        | <i>Blepharoneuron tricholepis</i>                           | <i>Blepharoneuron tricholepis</i>                         |           |      |            |      |           |           |            |
| BOCO2       | <i>Boerhavia coulteri</i>                                   | <i>Boerhavia coulteri</i>                                 |           |      |            |      |           |           |            |
| BOMU        | <i>Botrychium multifidum</i>                                | <i>Botrychium multifidum</i> subsp. <i>coulteri</i>       |           |      |            |      |           |           |            |
| BOAR        | <i>Bouteloua aristidoides</i>                               | <i>Bouteloua aristidoides</i>                             |           |      |            |      |           |           |            |
| BOBA2       | <i>Bouteloua barbata</i>                                    | <i>Bouteloua barbata</i>                                  |           |      |            |      |           |           |            |
| BOCU        | <i>Bouteloua curtipendula</i>                               | <i>Bouteloua curtipendula</i>                             | Fair      | Fair | Good       | Good | Good      | Poor      | Poor       |
| BOER4       | <i>Bouteloua eriopoda</i>                                   | <i>Bouteloua eriopoda</i>                                 | Fair      | Good | Good       | Good | Fair      | Poor      | Poor       |
| BOGR2       | <i>Bouteloua gracilis</i>                                   | <i>Bouteloua gracilis</i>                                 | Poor-Fair | Fair | Good       | Good | Good      | Fair      | Poor       |
| BOHI2       | <i>Bouteloua hirsuta</i>                                    | <i>Bouteloua hirsuta</i>                                  | Fair      | Good | Good       | Fair | Poor      | Poor      | Poor       |



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|-------------|---------------------------------|----------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| BOSI2       | <i>Bouteloua simplex</i>        | <i>Bouteloua simplex</i>         | Poor      | Fair      | Good       | Good | Good      | Poor      | Poor       |
| BRJU        | <i>Brassica juncea</i>          | <i>Brassica juncea</i>           |           |           |            |      |           |           |            |
| BRNI        | <i>Brassica nigra</i>           | <i>Brassica nigra</i>            | Fair      | Good      | Good       | Good | Good      | Fair      | Poor       |
| BRBE        | <i>Brickellia betonicifolia</i> | <i>Brickellia betonicaefolia</i> |           |           |            |      |           |           |            |
| BRBR2       | <i>Brickellia brachyphylla</i>  | <i>Brickellia brachyphylla</i>   |           |           |            |      |           |           |            |
| BRCA3       | <i>Brickellia californica</i>   | <i>Brickellia californica</i>    |           |           |            |      |           |           |            |
| BRFE        | <i>Brickellia fendleri</i>      | <i>Brickellia fendleri</i>       |           |           |            |      |           |           |            |
| BRGR        | <i>Brickellia grandiflora</i>   | <i>Brickellia grandiflora</i>    |           |           |            |      |           |           |            |
| BRAN        | <i>Bromus anomalus</i>          | <i>Bromus anomalus</i>           | Poor-Fair | Fair      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| BRCA6       | <i>Bromus catharticus</i>       | <i>Bromus catharticus</i>        |           |           |            |      |           |           |            |
| BRCI2       | <i>Bromus ciliatus</i>          | <i>Bromus ciliatus</i>           | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| BRFR2       | <i>Bromus frondosus</i>         | <i>Bromus frondosus</i>          |           |           |            |      |           |           |            |
| BRIN2       | <i>Bromus inermis</i>           | <i>Bromus inermis</i>            | Poor      | Fair      | Good       | Good | Good      | Poor-Good | Poor-Fair  |
| BRJA        | <i>Bromus japonicus</i>         | <i>Bromus japonicus</i>          | Poor-Fair | Poor-Fair | Good       | Good | Good      | Fair      | Poor-Fair  |
| BRLA6       | <i>Bromus lanatipes</i>         | <i>Bromus lanatipes</i>          |           |           |            |      |           |           |            |
| BRMA4       | <i>Bromus marginatus</i>        | <i>Bromus marginatus</i>         | Poor-Fair | Fair      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| BRKA2       | <i>Bromus kalmii</i>            | <i>Bromus purgans</i>            |           |           |            |      |           |           |            |
| BRTE        | <i>Bromus tectorum</i>          | <i>Bromus tectorum</i>           | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| BUDA        | <i>Buchloe dactyloides</i>      | <i>Buchloe dactyloides</i>       | Poor      | Poor      | Fair       | Good | Good      | Fair      | Poor       |
| CAGU        | <i>Calochortus gunnisonii</i>   | <i>Calochortus gunnisonii</i>    |           |           |            |      |           |           |            |
| CANU3       | <i>Calochortus nuttallii</i>    | <i>Calochortus nuttallii</i>     | Poor      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| CAHA14      | <i>Calylophus hartwegii</i>     | <i>Calylophus hartwegii</i>      |           |           |            |      |           |           |            |
| CABU        | <i>Calypso bulbosa</i>          | <i>Calypso bulbosa</i>           |           |           |            |      |           |           |            |
| CAMI2       | <i>Camelina microcarpa</i>      | <i>Camelina microcarpa</i>       |           |           |            |      |           |           |            |
| CAPA10      | <i>Campanula parryi</i>         | <i>Campanula parryi</i>          |           |           |            |      |           |           |            |
| CARO2       | <i>Campanula rotundifolia</i>   | <i>Campanula rotundifolia</i>    | Fair-Good | Fair      | Good       | Good | Fair      | Poor-Fair | Poor       |
| CABU2       | <i>Capsella bursa-pastoris</i>  | <i>Capsella bursa-pastoris</i>   | Poor-Fair | Fair      | Good       | Good | Good      | Fair      | Fair       |
| CACO6       | <i>Cardamine cordifolia</i>     | <i>Cardamine cordifolia</i>      |           |           |            |      |           |           |            |
| CADR        | <i>Cardaria draba</i>           | <i>Cardaria draba</i>            | Fair      | Fair-Good | Good       | Good | Good      | Fair-Good | Poor-Fair  |
| CANU4       | <i>Carduus nutans</i>           | <i>Carduus nutans</i>            | Fair      | Fair      | Good       | Good | Good      | Fair      | Fair       |
| CAAQ        | <i>Carex aquatilis</i>          | <i>Carex aquatilis</i>           | Poor      | Fair      | Good       | Good | Fair-Good | Fair      | Poor-Fair  |
| CABE3       | <i>Carex bella</i>              | <i>Carex bella</i>               |           |           |            |      |           |           |            |
| CABO2       | <i>Carex bolanderi</i>          | <i>Carex bolanderi</i>           |           |           |            |      |           |           |            |
| CABR10      | <i>Carex brevior</i>            | <i>Carex brevior</i>             |           |           |            |      |           |           |            |
| CACA11      | <i>Carex canescens</i>          | <i>Carex canescens</i>           |           |           |            |      |           |           |            |
| CADO2       | <i>Carex douglasii</i>          | <i>Carex douglasii</i>           | Fair      | Fair      | Good       | Good | Good      | Good      | Fair       |
| CADU6       | <i>Carex duriuscula</i>         | <i>Carex eleocharis</i>          | Fair-Poor | Fair      | Good       | Good | Good      | Fair      | Poor       |
| CAMI7       | <i>Carex microptera</i>         | <i>Carex festivella</i>          | Fair-Poor | Fair      | Good       | Good | Good      | Poor-Fair | Poor-Fair  |
| CAFO3       | <i>Carex foenea</i>             | <i>Carex foenea</i>              |           |           |            |      |           |           |            |

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|-------------|-------------------------------------------------------|-------------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| CAGE        | <i>Carex geophila</i>                                 | <i>Carex geophila</i>                                 |           |           |            |      |           |           |            |
| CAHY4       | <i>Carex hystericina</i>                              | <i>Carex hystericina</i>                              |           |           |            |      |           |           |            |
| CAIN11      | <i>Carex interior</i>                                 | <i>Carex interior</i>                                 |           |           |            |      |           |           |            |
| CALA30      | <i>Carex lanuginosa</i>                               | <i>Carex lanuginosa</i>                               | Poor      | Fair      | Good       | Good | Good      | Poor      | Poor       |
| CANE2       | <i>Carex nebraskensis</i>                             | <i>Carex nebraskensis</i>                             | Poor      | Fair      | Good       | Good | Good      | Poor-Good | Poor-Fair  |
| CAOC2       | <i>Carex occidentalis</i>                             | <i>Carex occidentalis</i>                             |           |           |            |      |           |           |            |
| CAPR5       | <i>Carex praegracilis</i>                             | <i>Carex praegracilis</i>                             |           |           |            |      |           |           |            |
| CASC11      | <i>Carex scoparia</i>                                 | <i>Carex scoparia</i>                                 |           |           |            |      |           |           |            |
| CAST5       | <i>Carex stipata</i>                                  | <i>Carex stipata</i>                                  |           |           |            |      |           |           |            |
| CAXE        | <i>Carex xerantica</i>                                | <i>Carex xerantica</i>                                |           |           |            |      |           |           |            |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>         | <i>Castilleja confusa</i>                             |           |           |            |      |           |           |            |
| CAIN14      | <i>Castilleja integra</i>                             | <i>Castilleja integra</i>                             | Poor      | Fair      | Fair       | Fair | Fair      | Poor      | Poor       |
| CALI4       | <i>Castilleja linariifolia</i>                        | <i>Castilleja linariaefolia</i>                       | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| CALI5       | <i>Castilleja lineata</i>                             | <i>Castilleja lineata</i>                             |           |           |            |      |           |           |            |
| CAMI12      | <i>Castilleja miniata</i>                             | <i>Castilleja miniata</i>                             | Poor      | Fair      | Good       | Good | Fair      | Poor      | Poor       |
| CAMI13      | <i>Castilleja minor</i>                               | <i>Castilleja minor</i>                               |           |           |            |      |           |           |            |
| CARH4       | <i>Castilleja rhexiifolia</i>                         | <i>Castilleja rhexifolia</i>                          |           |           |            |      |           |           |            |
| CEFE        | <i>Ceanothus fendleri</i>                             | <i>Ceanothus fendleri</i>                             | Fair      | Fair      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>        | <i>Celtis reticulata</i>                              |           |           |            |      |           |           |            |
| CEEC        | <i>Cenchrus echinatus</i>                             | <i>Cenchrus echinatus</i>                             |           |           |            |      |           |           |            |
| CEIN4       | <i>Cenchrus incertus</i>                              | <i>Cenchrus pauciflorus</i>                           |           |           |            |      |           |           |            |
| CECA3       | <i>Centaurium calycosum</i>                           | <i>Centaurium calycosum</i>                           |           |           |            |      |           |           |            |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                              | Fair      | Fair      | Good       | Good | Fair-Good | Fair      | Poor       |
| CEBR3       | <i>Cerastium brachypodum</i>                          | <i>Cerastium brachypodum</i>                          |           |           |            |      |           |           |            |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                             |           |           |            |      |           |           |            |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | Fair-Good | Fair-Good | Fair-Good  | Good | Good      | Poor-Fair | Poor       |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> |           |           |            |      |           |           |            |
| CHCO        | <i>Chamaesaracha coniodes</i>                         | <i>Chamaesaracha coniodes</i>                         |           |           |            |      |           |           |            |
| CHCO2       | <i>Chamaesaracha coronopus</i>                        | <i>Chamaesaracha coronopus</i>                        |           |           |            |      |           |           |            |
| CHFE        | <i>Cheilanthes feei</i>                               | <i>Cheilanthes feei</i>                               |           |           |            |      |           |           |            |
| CHFE2       | <i>Cheilanthes fendleri</i>                           | <i>Cheilanthes fendleri</i>                           |           |           |            |      |           |           |            |
| CHTO2       | <i>Cheilanthes tomentosa</i>                          | <i>Cheilanthes tomentosa</i>                          |           |           |            |      |           |           |            |
| CHEA        | <i>Cheilanthes eatonii</i>                            | <i>Cheilanthes eatonii</i>                            |           |           |            |      |           |           |            |
| CHAL6       | <i>Chenopodium albescens</i>                          | <i>Chenopodium albescens</i>                          |           |           |            |      |           |           |            |
| CHAL7       | <i>Chenopodium album</i>                              | <i>Chenopodium album</i>                              | Fair      | Fair      | Good       | Good | Good      | Fair      | Fair       |
| CHBE4       | <i>Chenopodium berlandieri</i>                        | <i>Chenopodium berlandieri</i>                        |           |           |            |      |           |           |            |
| CHCA4       | <i>Chenopodium capitatum</i>                          | <i>Chenopodium capitatum</i>                          |           |           |            |      |           |           |            |
| CHCY        | <i>Chenopodium cycloides</i>                          | <i>Chenopodium cycloides</i>                          |           |           |            |      |           |           |            |

# SOIL CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                     | Gravel    | Sand      | Sandy Loam | Loam | Clay Loam | Clay      | Dense Clay |
|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| CHDE        | <i>Chenopodium desiccatum</i>                                                          | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>           |           |           |            |      |           |           |            |
| CHPR5       | <i>Chenopodium pratericola</i>                                                         | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i>      |           |           |            |      |           |           |            |
| CHFR3       | <i>Chenopodium fremontii</i>                                                           | <i>Chenopodium fremontii</i>                                   |           |           |            |      |           |           |            |
| CHSI2       | <i>Chenopodium simplex</i>                                                             | <i>Chenopodium gigantospermum</i>                              |           |           |            |      |           |           |            |
| CHGL3       | <i>Chenopodium glaucum</i>                                                             | <i>Chenopodium glaucum</i>                                     |           |           |            |      |           |           |            |
| CHGR2       | <i>Chenopodium graveolens</i>                                                          | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>         |           |           |            |      |           |           |            |
| CHIN2       | <i>Chenopodium incanum</i>                                                             | <i>Chenopodium incanum</i>                                     |           |           |            |      |           |           |            |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                                        | <i>Chenopodium leptophyllum</i>                                | Poor      | Fair      | Good       | Good | Poor      | Poor      | Poor       |
| CHRU        | <i>Chenopodium rubrum</i>                                                              | <i>Chenopodium rubrum</i>                                      |           |           |            |      |           |           |            |
| CHWA        | <i>Chenopodium watsonii</i>                                                            | <i>Chenopodium watsonii</i>                                    |           |           |            |      |           |           |            |
| CHUM        | <i>Chimaphila umbellata</i>                                                            | <i>Chimaphila umbellata</i>                                    |           |           |            |      |           |           |            |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         |           |           |            |      |           |           |            |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      |           |           |            |      |           |           |            |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         |           |           |            |      |           |           |            |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      |           |           |            |      |           |           |            |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           |           |           |            |      |           |           |            |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             |           |           |            |      |           |           |            |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor-Fair  |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Good | Poor-Fair  |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          |           |           |            |      |           |           |            |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    |           |           |            |      |           |           |            |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                                            | <i>Cirsium ochrocentrum</i>                                    |           |           |            |      |           |           |            |
| CIPA5       | <i>Cirsium pallidum</i>                                                                | <i>Cirsium pallidum</i>                                        |           |           |            |      |           |           |            |
| CIPA        | <i>Cirsium parryi</i>                                                                  | <i>Cirsium parryi</i>                                          |           |           |            |      |           |           |            |
| CICA10      | <i>Cirsium calcareum</i>                                                               | <i>Cirsium pulchellum</i>                                      |           |           |            |      |           |           |            |
| CIUN        | <i>Cirsium undulatum</i>                                                               | <i>Cirsium undulatum</i>                                       | Poor-Fair | Fair      | Good       | Good | Good      | Fair      | Poor       |
| CIVU        | <i>Cirsium vulgare</i>                                                                 | <i>Cirsium vulgare</i>                                         |           |           |            |      |           |           |            |
| CLDR        | <i>Clematis drummondii</i>                                                             | <i>Clematis drummondii</i>                                     |           |           |            |      |           |           |            |
| CLLI2       | <i>Clematis ligusticifolia</i>                                                         | <i>Clematis ligusticifolia</i>                                 | Poor-Fair | Fair-Good | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i>                                      | <i>Clematis pseudoalpina</i>                                   |           |           |            |      |           |           |            |
| CLSE        | <i>Cleome serrulata</i>                                                                | <i>Cleome serrulata</i>                                        | Fair      | Good      | Good       | Good | Fair      | Poor      | Poor       |
| CLVU        | <i>Clinopodium vulgare</i>                                                             | <i>Clinopodium vulgare</i>                                     |           |           |            |      |           |           |            |
| COLI2       | <i>Collomia linearis</i>                                                               | <i>Collomia linearis</i>                                       |           |           |            |      |           |           |            |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>                                          | <i>Comandra pallida</i>                                        |           |           |            |      |           |           |            |
| CODI4       | <i>Commelina dianthifolia</i>                                                          | <i>Commelina dianthifolia</i>                                  |           |           |            |      |           |           |            |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>                                          | <i>Conopholis mexicana</i>                                     |           |           |            |      |           |           |            |

## SOIL CON'T

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|-------------|--------------------------------------------------|-------------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| COAR4       | <i>Convolvulus arvensis</i>                      | <i>Convolvulus arvensis</i>                           | Fair      | Fair      | Good       | Good | Good      | Fair      | Fair       |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>      | <i>Convolvulus sepium</i>                             |           |           |            |      |           |           |            |
| COCA5       | <i>Conyza canadensis</i>                         | <i>Conyza canadensis</i>                              | Fair      | Good      | Good       | Good | Fair      | Poor      | Poor       |
| COMA4       | <i>Corallorrhiza maculata</i>                    | <i>Corallorrhiza maculata</i>                         |           |           |            |      |           |           |            |
| COST        | <i>Corallorrhiza striata</i>                     | <i>Corallorrhiza striata</i>                          |           |           |            |      |           |           |            |
| COWR2       | <i>Cordylanthus wrightii</i>                     | <i>Cordylanthus wrightii</i>                          |           |           |            |      |           |           |            |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i> | <i>Coreopsis cardaminefolia</i>                       |           |           |            |      |           |           |            |
| COTI3       | <i>Coreopsis tinctoria</i>                       | <i>Coreopsis tinctoria</i>                            |           |           |            |      |           |           |            |
| COSA        | <i>Coriandrum sativum</i>                        | <i>Coriandrum sativum</i>                             |           |           |            |      |           |           |            |
| COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i>        | <i>Cornus stolonifera</i>                             | Poor      | Good      | Good       | Good | Fair-Good | Poor      | Poor       |
| COAU2       | <i>Corydalis aurea</i>                           | <i>Corydalis aurea</i>                                | Poor      | Fair      | Good       | Good | Good      | Poor      | Poor       |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>   | <i>Coryphantha vivipara</i>                           | Poor-Fair | Fair      | Good       | Good | Fair      | Poor-Fair | Poor       |
| COPA12      | <i>Cosmos parviflorus</i>                        | <i>Cosmos parviflorus</i>                             |           |           |            |      |           |           |            |
| CRER        | <i>Crataegus erythropoda</i>                     | <i>Crataegus erythropoda</i>                          |           |           |            |      |           |           |            |
| CRTE4       | <i>Croton texensis</i>                           | <i>Croton texensis</i>                                |           |           |            |      |           |           |            |
| CRFE3       | <i>Cryptantha fendleri</i>                       | <i>Cryptantha fendleri</i>                            |           |           |            |      |           |           |            |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>    | <i>Cryptantha jamesii</i>                             |           |           |            |      |           |           |            |
| CRM15       | <i>Cryptantha minima</i>                         | <i>Cryptantha minima</i>                              |           |           |            |      |           |           |            |
| CRAC3       | <i>Cryptogramma acrostichoides</i>               | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> |           |           |            |      |           |           |            |
| CUFO        | <i>Cucurbita foetidissima</i>                    | <i>Cucurbita foetidissima</i>                         |           |           |            |      |           |           |            |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i>   | <i>Cuscuta campestris</i>                             |           |           |            |      |           |           |            |
| CUUM        | <i>Cuscuta umbellata</i>                         | <i>Cuscuta umbellata</i>                              |           |           |            |      |           |           |            |
| CYBU        | <i>Cymopterus bulbosus</i>                       | <i>Cymopterus bulbosus</i>                            |           |           |            |      |           |           |            |
| CYDA        | <i>Cynodon dactylon</i>                          | <i>Cynodon dactylon</i>                               |           |           |            |      |           |           |            |
| CYEC        | <i>Cynosurus echinatus</i>                       | <i>Cynosurus echinatus</i>                            |           |           |            |      |           |           |            |
| CYSQ        | <i>Cyperus squarrosus</i>                        | <i>Cyperus aristatus</i>                              |           |           |            |      |           |           |            |
| MISE3       | <i>Mitreola sessilifolia</i>                     | <i>Cyperus esculentus</i>                             |           |           |            |      |           |           |            |
| CYFE2       | <i>Cyperus fendlerianus</i>                      | <i>Cyperus fendlerianus</i>                           |           |           |            |      |           |           |            |
| CYBI6       | <i>Cyperus bipartitus</i>                        | <i>Cyperus rivularis</i>                              |           |           |            |      |           |           |            |
| CYPU10      | <i>Cypripedium pubescens</i>                     | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    |           |           |            |      |           |           |            |
| CYFR2       | <i>Cystopteris fragilis</i>                      | <i>Cystopteris fragilis</i>                           |           |           |            |      |           |           |            |
| DAGL        | <i>Dactylis glomerata</i>                        | <i>Dactylis glomerata</i>                             | Poor-Fair | Poor-Fair | Good       | Good | Good      | Fair-Good | Poor-Fair  |
| DABR        | <i>Dalea brachystachya</i>                       | <i>Dalea brachystachys</i>                            |           |           |            |      |           |           |            |
| DAFO        | <i>Dalea formosa</i>                             | <i>Dalea formosa</i>                                  |           |           |            |      |           |           |            |
| DALE3       | <i>Dalea leporina</i>                            | <i>Dalea leporina</i>                                 |           |           |            |      |           |           |            |
| DANA        | <i>Dalea nana</i>                                | <i>Dalea nana</i>                                     |           |           |            |      |           |           |            |
| DAPO3       | <i>Dalea polygonoides</i>                        | <i>Dalea polygonoides</i>                             |           |           |            |      |           |           |            |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>       | <i>Dalea terminalis</i>                               |           |           |            |      |           |           |            |
| DAIN        | <i>Danthonia intermedia</i>                      | <i>Danthonia intermedia</i>                           | Poor      | Poor      | Good       | Good | Good      | Fair      | Fair       |

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| DAPA2       | <i>Danthonia parryi</i>                                         | <i>Danthonia parryi</i>                                         | Poor      | Poor      | Good       | Good | Good      | Fair      | Fair       |
| DASP2       | <i>Danthonia spicata</i>                                        | <i>Danthonia spicata</i>                                        |           |           |            |      |           |           |            |
| DAWR2       | <i>Datura wrightii</i>                                          | <i>Datura meteloides</i>                                        |           |           |            |      |           |           |            |
| DEOC        | <i>Delphinium X occidentale</i>                                 | <i>Delphinium occidentale</i>                                   | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| DEWO        | <i>Delphinium wootonii</i>                                      | <i>Delphinium virescens</i> subsp. <i>wootonii</i>              |           |           |            |      |           |           |            |
| DECE        | <i>Deschampsia cespitosa</i>                                    | <i>Deschampsia caespitosa</i>                                   | Poor      | Poor-Fair | Good       | Good | Good      | Poor-Good | Poor-Fair  |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>                    | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>                  |           |           |            |      |           |           |            |
| DEPI        | <i>Descurainia pinnata</i>                                      | <i>Descurainia pinnata</i>                                      | Poor      | Fair      | Good       | Good | Fair      | Poor      | Poor       |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>                    | <i>Descurainia richardsonii</i>                                 |           |           |            |      |           |           |            |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>iricisa</i>                   | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>            |           |           |            |      |           |           |            |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>                   | <i>Descurainia richardsonii</i> subsp. <i>procera</i>           |           |           |            |      |           |           |            |
| DESO2       | <i>Descurainia sophia</i>                                       | <i>Descurainia sophia</i>                                       |           |           |            |      |           |           |            |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>                   | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i>           |           |           |            |      |           |           |            |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis spicata</i>                                       |           |           |            |      |           |           |            |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis stricta</i>                                       | Poor      | Poor-Fair | Fair-Good  | Good | Good      | Good      | Fair-Good  |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                                  | <i>Dithyrea wislizenii</i>                                      |           |           |            |      |           |           |            |
| DOAL        | <i>Dodecatheon alpinum</i>                                      | <i>Dodecatheon alpinum</i>                                      |           |           |            |      |           |           |            |
| DOPU        | <i>Dodecatheon pulchellum</i>                                   | <i>Dodecatheon pulchellum</i>                                   | Poor      | Fair      | Good       | Good | Good      | Fair      | Fair       |
| DRAU        | <i>Draba aurea</i>                                              | <i>Draba aurea</i> var. <i>aurea</i>                            |           |           |            |      |           |           |            |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>                  | <i>Draba helleriana</i> var. <i>helleriana</i>                  |           |           |            |      |           |           |            |
| DRRE        | <i>Draba rectifruca</i>                                         | <i>Draba rectifruca</i>                                         |           |           |            |      |           |           |            |
| DRRE2       | <i>Draba reptans</i>                                            | <i>Draba reptans</i>                                            |           |           |            |      |           |           |            |
| DRSP        | <i>Draba spectabilis</i>                                        | <i>Draba spectabilis</i>                                        |           |           |            |      |           |           |            |
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     |           |           |            |      |           |           |            |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         | Poor      | Poor      | Good       | Good | Good      | Poor      | Poor       |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belendium</i>            | <i>Dyssodia thurberi</i>                                        |           |           |            |      |           |           |            |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    |           |           |            |      |           |           |            |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> |           |           |            |      |           |           |            |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   |           |           |            |      |           |           |            |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       |           |           |            |      |           |           |            |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    | Poor      | Fair-Good | Good       | Good | Good      | Fair-Good | Poor       |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   | Poor-Fair | Fair      | Fair-Good  | Good | Good      | Fair-Good | Poor-Fair  |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  |           |           |            |      |           |           |            |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        |           |           |            |      |           |           |            |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        | Fair      | Good      | Good       | Good | Fair      | Fair      | Poor       |

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|-------------|---------------------------------------------------------|---------------------------------------------------------|-----------|-----------|------------|-----------|-----------|-----------|------------|
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>              | <i>Ephedra viridis</i> var. <i>viridis</i>              | Fair-Poor | Good-Fair | Good       | Fair-Good | Fair-Good | Poor-Fair | Poor       |
| EPAN2       | <i>Epilobium angustifolium</i>                          | <i>Epilobium angustifolium</i>                          | Poor-Fair | Fair      | Good       | Good      | Fair-Good | Poor-Fair | Poor       |
| EPCI        | <i>Epilobium ciliatum</i>                               | <i>Epilobium ciliatum</i>                               |           |           |            |           |           |           |            |
| EPOR2       | <i>Epilobium oregonense</i>                             | <i>Epilobium oregonense</i>                             |           |           |            |           |           |           |            |
| EPBR3       | <i>Epilobium brachycarpum</i>                           | <i>Epilobium paniculatum</i>                            |           |           |            |           |           |           |            |
| EPCI        | <i>Epipactis gigantea</i>                               | <i>Epipactis gigantea</i>                               |           |           |            |           |           |           |            |
| EQAR        | <i>Equisetum arvense</i>                                | <i>Equisetum arvense</i>                                | Fair      | Good      | Good       | Good      | Good      | Fair      | Poor       |
| EQHY        | <i>Equisetum hyemale</i>                                | <i>Equisetum hiemale</i>                                | Fair      | Good      | Good       | Good      | Good      | Good      | Fair       |
| EQLA        | <i>Equisetum laevigatum</i>                             | <i>Equisetum laevigatum</i>                             | Fair      | Good      | Good       | Good      | Good      | Fair      | Poor       |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>      | <i>Eragrostis arida</i>                                 |           |           |            |           |           |           |            |
| ERBA2       | <i>Eragrostis barrelieri</i>                            | <i>Eragrostis barrelieri</i>                            |           |           |            |           |           |           |            |
| ERCI        | <i>Eragrostis cilianensis</i>                           | <i>Eragrostis cilianensis</i>                           | Poor      | Fair      | Good       | Good      | Good      | Fair      | Poor       |
| ERCU2       | <i>Eragrostis curvula</i>                               | <i>Eragrostis curvula</i>                               |           |           |            |           |           |           |            |
| ERHY        | <i>Eragrostis hypnoides</i>                             | <i>Eragrostis hypnoides</i>                             |           |           |            |           |           |           |            |
| ERPE        | <i>Eragrostis pectinacea</i>                            | <i>Eragrostis pectinacea</i>                            |           |           |            |           |           |           |            |
| ERTR3       | <i>Eragrostis trichodes</i>                             | <i>Eragrostis trichodes</i>                             | Poor      | Good      | Fair       |           | Poor      | Poor      | Poor       |
| ERCA4       | <i>Erigeron canus</i>                                   | <i>Erigeron canus</i>                                   |           |           |            |           |           |           |            |
| ERDI4       | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               |           |           |            |           |           |           |            |
| EREL9       | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 |           |           |            |           |           |           |            |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             | Poor      | Poor      | Good       | Good      | Good      | Poor      | Poor       |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> |           |           |            |           |           |           |            |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus viscidus</i>                  |           |           |            |           |           |           |            |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              |           |           |            |           |           |           |            |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  |           |           |            |           |           |           |            |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          |           |           |            |           |           |           |            |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            |           |           |            |           |           |           |            |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinus</i>          | <i>Erigeron pumilus</i> subsp. <i>concinoides</i>       | Fair      | Fair      | Good       | Good      | Good      | Fair      | Poor       |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              |           |           |            |           |           |           |            |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 | Fair-Good | Fair      | Good       | Good      | Fair-Good | Poor-Fair | Poor       |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | Poor-Fair | Poor-Fair | Good       | Good      | Good      | Fair      | Poor       |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            |           |           |            |           |           |           |            |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                |           |           |            |           |           |           |            |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               |           |           |            |           |           |           |            |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                |           |           |            |           |           |           |            |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               |           |           |            |           |           |           |            |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             |           |           |            |           |           |           |            |
| ERAL4       | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 | Fair      | Fair-Good | Good       | Good      | Fair      | Poor      | Poor       |
| ERAN4       | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 |           |           |            |           |           |           |            |

# SOIL CON'T

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|-------------|-----------------------------------------------------------|---------------------------------------------------|-----------|------|------------|------|-----------|-----------|------------|
| ERCE2       | <i>Eriogonum cernuum</i>                                  | <i>Eriogonum cernuum</i>                          | Fair      | Good | Good       | Good | Good      | Fair      | Poor       |
| EREF        | <i>Eriogonum effusum</i>                                  | <i>Eriogonum effusum</i>                          | Poor      | Fair | Good       | Good | Fair      | Poor      | Poor       |
| ERJA        | <i>Eriogonum jamesii</i>                                  | <i>Eriogonum jamesii</i>                          |           |      |            |      |           |           |            |
| ERLE9       | <i>Eriogonum leptocladon</i>                              | <i>Eriogonum leptocladon</i>                      |           |      |            |      |           |           |            |
| ERPO4       | <i>Eriogonum polycladon</i>                               | <i>Eriogonum polycladon</i>                       |           |      |            |      |           |           |            |
| ERRA3       | <i>Eriogonum racemosum</i>                                | <i>Eriogonum racemosum</i>                        | Fair      | Fair | Good       | Good | Good      | Fair      | Poor       |
| ERC16       | <i>Erodium cicutarium</i>                                 | <i>Erodium cicutarium</i>                         | Fair      | Fair | Good       | Good | Good      | Fair      | Poor       |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>           | <i>Erysimum asperum</i>                           | Poor-Good | Fair | Good       | Good | Good      | Fair      | Poor       |
| ERCA14      | <i>Erysimum capitatum</i>                                 | <i>Erysimum capitatum</i>                         |           |      |            |      |           |           |            |
| ERIN7       | <i>Erysimum inconspicuum</i>                              | <i>Erysimum inconspicuum</i>                      |           |      |            |      |           |           |            |
| ERHE7       | <i>Erythronium hendersonii</i>                            | <i>Eupatorium herbaceum</i>                       |           |      |            |      |           |           |            |
| CHAL11      | <i>Chamaesyce albomarginata</i>                           | <i>Euphorbia albomarginata</i>                    |           |      |            |      |           |           |            |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i>                          |           |      |            |      |           |           |            |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i> var. <i>cuphospema</i>   |           |      |            |      |           |           |            |
| EUEX4       | <i>Euphorbia exstipulata</i>                              | <i>Euphorbia exstipulata</i>                      |           |      |            |      |           |           |            |
| CHFE3       | <i>Chamaesyce fendleri</i>                                | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    |           |      |            |      |           |           |            |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>               | <i>Euphorbia geyeri</i>                           |           |      |            |      |           |           |            |
| EULU        | <i>Euphorbia lurida</i>                                   | <i>Euphorbia lurida</i>                           |           |      |            |      |           |           |            |
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> |           |      |            |      |           |           |            |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      |           |      |            |      |           |           |            |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         |           |      |            |      |           |           |            |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          |           |      |            |      |           |           |            |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    |           |      |            |      |           |           |            |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             |           |      |            |      |           |           |            |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                          |           |      |            |      |           |           |            |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                          | Good      | Fair | Good       | Good | Good      | Fair      | Poor       |
| FERUR       | <i>Fendlera rupicola</i> var. <i>rupicola</i>             | <i>Fendlera rupicola</i> var. <i>rupicola</i>     |           |      |            |      |           |           |            |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                          | Poor      | Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                            |           |      |            |      |           |           |            |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                          |           |      |            |      |           |           |            |
| FEOV        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                              | Fair      | Fair | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                            |           |      |            |      |           |           |            |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                           | Poor      | Poor | Good       | Good | Good      | Poor-Fair | Poor       |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                     |           |      |            |      |           |           |            |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>               | <i>Fragaria americana</i>                         |           |      |            |      |           |           |            |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>         | <i>Fragaria ovalis</i>                            |           |      |            |      |           |           |            |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                        | <i>Franseria acanthicarpa</i>                     |           |      |            |      |           |           |            |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                         | <i>Franseria confertiflora</i>                    |           |      |            |      |           |           |            |

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|-------------|---------------------------------------------------------|--------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                     | <i>Gaillardia pinnatifida</i>                    |           |           |            |      |           |           |            |
| GAAP2       | <i>Galium aparine</i> L.                                | <i>Galium aparine</i>                            |           |           |            |      |           |           |            |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>asperrimum</i>          | <i>Galium asperrimum</i>                         |           |           |            |      |           |           |            |
| GABO2       | <i>Galium boreale</i>                                   | <i>Galium boreale</i>                            | Poor-Fair | Poor-Fair | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| GAFE        | <i>Galium fendleri</i>                                  | <i>Galium fendleri</i>                           |           |           |            |      |           |           |            |
| GAMI        | <i>Galium microphyllum</i>                              | <i>Galium microphyllum</i>                       |           |           |            |      |           |           |            |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>          | <i>Galium tinctorum</i> var. <i>subbiflorum</i>  |           |           |            |      |           |           |            |
| GACO5       | <i>Gaura coccinea</i>                                   | <i>Gaura coccinea</i>                            | Fair      | Good      | Good       | Good | Fair      | Poor      | Poor       |
| GAPA6       | <i>Gaura parviflora</i>                                 | <i>Gaura parviflora</i>                          |           |           |            |      |           |           |            |
| GEAF        | <i>Gentiana affinis</i>                                 | <i>Gentiana affinis</i>                          | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| GEAF        | <i>Gentiana affinis</i>                                 | <i>Gentiana bigelovii</i>                        |           |           |            |      |           |           |            |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>           | <i>Gentiana plebeia</i>                          |           |           |            |      |           |           |            |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>           | <i>Gentiana strictiflora</i>                     |           |           |            |      |           |           |            |
| GECA3       | <i>Geranium caespitosum</i>                             | <i>Geranium caespitosum</i>                      |           |           |            |      |           |           |            |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i>       | <i>Geranium fremontii</i>                        | Poor-Fair | Poor-Fair | Good       | Good | Fair-Good | Poor-Good | Poor-Fair  |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>          | <i>Geranium fremontii</i> var. <i>parryi</i>     |           |           |            |      |           |           |            |
| GERI        | <i>Geranium richardsonii</i>                            | <i>Geranium richardsonii</i>                     | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>         | <i>Geum macrophyllum</i> var. <i>perincisum</i>  |           |           |            |      |           |           |            |
| GERI2       | <i>Geum rivale</i>                                      | <i>Geum rivale</i>                               |           |           |            |      |           |           |            |
| GEAL3       | <i>Geum aleppicum</i>                                   | <i>Geum strictum</i> var. <i>strictum</i>        |           |           |            |      |           |           |            |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>              | <i>Geum triflorum</i> var. <i>ciliatum</i>       | Good      | Fair      | Good       | Good | Good      | Good      | Fair       |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>          | <i>Gilia flavocincta</i> subsp. <i>australis</i> |           |           |            |      |           |           |            |
| GILE3       | <i>Gilia leptomeria</i>                                 | <i>Gilia leptomeria</i>                          |           |           |            |      |           |           |            |
| GIPI        | <i>Gilia pinnatifida</i>                                | <i>Gilia pinnatifida</i>                         |           |           |            |      |           |           |            |
| GLBO        | <i>Glyceria borealis</i>                                | <i>Glyceria borealis</i>                         |           |           |            |      |           |           |            |
| GLGR        | <i>Glyceria grandis</i>                                 | <i>Glyceria grandis</i>                          | Fair      | Fair      | Good       | Good | Good      | Fair      | Fair       |
| GLST        | <i>Glyceria striata</i>                                 | <i>Glyceria striata</i>                          | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                             | <i>Glycyrrhiza lepidota</i>                      | Poor-Fair | Fair-Good | Good       | Good | Good      | Fair      | Poor       |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       |           |           |            |      |           |           |            |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       |           |           |            |      |           |           |            |
| GNEX        | <i>Gnaphalium exilifolium</i>                           | <i>Gnaphalium grayi</i>                          |           |           |            |      |           |           |            |
| PSMA11      | <i>Pseudognaphalium macounii</i>                        | <i>Gnaphalium macounii</i>                       |           |           |            |      |           |           |            |
| GNPA        | <i>Gnaphalium palustre</i>                              | <i>Gnaphalium palustre</i>                       |           |           |            |      |           |           |            |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i> | <i>Gnaphalium wrightii</i>                       |           |           |            |      |           |           |            |
| GOOB2       | <i>Goodyera oblongifolia</i>                            | <i>Goodyera oblongifolia</i>                     |           |           |            |      |           |           |            |
| GORE2       | <i>Goodyera repens</i>                                  | <i>Goodyera repens</i>                           |           |           |            |      |           |           |            |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>            | <i>Grindelia aphanactis</i>                      |           |           |            |      |           |           |            |
| GRFA        | <i>Grindelia fastigiata</i>                             | <i>Grindelia fastigiata</i>                      |           |           |            |      |           |           |            |



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| GRSQ        | <i>Grindelia squarrosa</i>                                    | <i>Grindelia squarrosa</i>                             | Poor-Fair | Fair      | Good       | Good | Good      | Fair      | Poor       |
| GUMI        | <i>Gutierrezia microcephala</i>                               | <i>Gutierrezia microcephala</i>                        |           |           |            |      |           |           |            |
| GUSA2       | <i>Gutierrezia sarothrae</i>                                  | <i>Gutierrezia sarothrae</i>                           | Fair      | Fair-Good | Good       | Good | Good      | Fair      | Poor       |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>          | <i>Habenaria hyperborea</i>                            |           |           |            |      |           |           |            |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>        | <i>Habenaria sparsiflora</i>                           |           |           |            |      |           |           |            |
| HAFL2       | <i>Hackelia floribunda</i>                                    | <i>Hackelia floribunda</i>                             |           |           |            |      |           |           |            |
| HABE3       | <i>Hackelia besseyi</i>                                       | <i>Hackelia grisea</i>                                 |           |           |            |      |           |           |            |
| HAPI2       | <i>Hackelia pinetorum</i>                                     | <i>Hackelia pinetorum</i>                              |           |           |            |      |           |           |            |
| PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i>                    | <i>Haplopappus croceus</i>                             |           |           |            |      |           |           |            |
| MAGR10      | <i>Machaeranthera gracilis</i>                                | <i>Haplopappus gracilis</i>                            |           |           |            |      |           |           |            |
| MAGRG       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i> | <i>Haplopappus nuttallii</i>                           |           |           |            |      |           |           |            |
| SOPA4       | <i>Solidago parryi</i>                                        | <i>Haplopappus parryi</i>                              |           |           |            |      |           |           |            |
| MAPI4       | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i>     | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> | Poor      | Fair      | Fair       | Good | Good      | Poor      | Poor       |
| HEDR        | <i>Hedeoma drummondii</i>                                     | <i>Hedeoma drummondii</i>                              |           |           |            |      |           |           |            |
| HENA        | <i>Hedeoma nana</i>                                           | <i>Hedeoma nana</i>                                    |           |           |            |      |           |           |            |
| HEOB        | <i>Hedeoma oblongifolia</i>                                   | <i>Hedeoma oblongifolia</i>                            |           |           |            |      |           |           |            |
| HEPU12      | <i>Hedeoma pulcherrima</i>                                    | <i>Hedeoma pulcherrima</i>                             |           |           |            |      |           |           |            |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>                | <i>Helenium autumnale</i> var. <i>montanum</i>         |           |           |            |      |           |           |            |
| HYHO        | <i>Hymenoxys hoopesii</i>                                     | <i>Helenium hoopesii</i>                               |           |           |            |      |           |           |            |
| HEQU2       | <i>Helianthella quinquenervis</i>                             | <i>Helianthella quinquenervis</i>                      | Poor      | Poor      | Good       | Good | Good      | Poor      | Poor       |
| HEAN3       | <i>Helianthus annuus</i>                                      | <i>Helianthus annuus</i>                               | Poor-Fair | Fair      | Good       | Good | Good      | Fair      | Poor       |
| HEAR8       | <i>Helianthus arizonensis</i>                                 | <i>Helianthus arizonensis</i>                          |           |           |            |      |           |           |            |
| HEPE        | <i>Helianthus petiolaris</i>                                  | <i>Helianthus petiolaris</i>                           | Fair      | Good      | Good       | Good | Good      | Fair      | Poor       |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i>      | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i> | Poor      | Fair      | Good       | Good | Good      | Poor      | Poor       |
| HEMA80      | <i>Heracleum maximum</i>                                      | <i>Heracleum lanatum</i>                               |           |           |            |      |           |           |            |
| HEPA11      | <i>Heuchera parvifolia</i>                                    | <i>Heuchera parvifolia</i>                             |           |           |            |      |           |           |            |
| HICA4       | <i>Hieracium cameum</i>                                       | <i>Hieracium cameum</i>                                |           |           |            |      |           |           |            |
| HIFE        | <i>Hieracium fendleri</i>                                     | <i>Hieracium fendleri</i>                              |           |           |            |      |           |           |            |
| HIOD        | <i>Hierochloe odorata</i>                                     | <i>Hierochloe odorata</i>                              |           |           |            |      |           |           |            |
| PLJA        | <i>Pleuraphis jamesii</i>                                     | <i>Hilaria jamesii</i>                                 | Poor      | Fair-Good | Fair-Good  | Good | Good      | Fair      | Poor       |
| HODU        | <i>Holodiscus dumosus</i>                                     | <i>Holodiscus dumosus</i>                              | Fair-Good | Fair      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| HOBR2       | <i>Hordeum brachyantherum</i>                                 | <i>Hordeum brachyantherum</i>                          | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| HOJU        | <i>Hordeum jubatum</i>                                        | <i>Hordeum jubatum</i>                                 | Poor-Fair | Fair      | Good       | Good | Good      | Good      | Poor-Fair  |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>                 | <i>Humulus americanus</i>                              |           |           |            |      |           |           |            |
| HYFE        | <i>Hydrophyllum fendleri</i>                                  | <i>Hydrophyllum fendleri</i>                           |           |           |            |      |           |           |            |
| HYFI        | <i>Hymenopappus filifolius</i>                                | <i>Hymenopappus filifolius</i>                         |           |           |            |      |           |           |            |

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| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                                | Gravel    | Sand      | Sandy Loam | Loam | Clay Loam | Clay      | Dense Clay |
|-------------|-------------------------------------------------------|-----------------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i> | <i>Hymenopappus flavescens</i> var. <i>canotomentosus</i> |           |           |            |      |           |           |            |
| HYNE        | <i>Hymenopappus newberryi</i>                         | <i>Hymenopappus newberryi</i>                             |           |           |            |      |           |           |            |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                       | <i>Hymenopappus tenuifolius</i>                           |           |           |            |      |           |           |            |
| TECA2       | <i>Tetradymia canescens</i>                           | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>              | Fair-Good | Fair      | Good       | Good | Fair-Good | Fair      | Poor       |
| TEACA       | <i>Tetrameuris acaulis</i> var. <i>arizonica</i>      | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>            |           |           |            |      |           |           |            |
| TEACN       | <i>Tetrameuris acaulis</i> var. <i>nana</i>           | <i>Hymenoxys argentea</i>                                 |           |           |            |      |           |           |            |
| TEBR        | <i>Tetrameuris brandegei</i>                          | <i>Hymenoxys brandegei</i>                                |           |           |            |      |           |           |            |
| TEIV        | <i>Tetrameuris ivesiana</i>                           | <i>Hymenoxys ivesiana</i>                                 |           |           |            |      |           |           |            |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>  | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>      |           |           |            |      |           |           |            |
| HYNI        | <i>Hyoscyamus niger</i>                               | <i>Hyoscyamus niger</i>                                   |           |           |            |      |           |           |            |
| HYFO4       | <i>Hypericum formosum</i>                             | <i>Hypericum formosum</i>                                 |           |           |            |      |           |           |            |
| IPCO3       | <i>Ipomoea coccinea</i>                               | <i>Ipomoea coccinea</i>                                   |           |           |            |      |           |           |            |
| IPHE        | <i>Ipomoea hederacea</i>                              | <i>Ipomoea hederacea</i>                                  |           |           |            |      |           |           |            |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>      | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>        | Fair      | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>     | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>           |           |           |            |      |           |           |            |
| IPLA2       | <i>Ipomopsis laxiflora</i>                            | <i>Ipomopsis laxiflora</i>                                |           |           |            |      |           |           |            |
| IPLO2       | <i>Ipomopsis longiflora</i>                           | <i>Ipomopsis longiflora</i>                               |           |           |            |      |           |           |            |
| IPMU3       | <i>Ipomopsis multiflora</i>                           | <i>Ipomopsis multiflora</i>                               |           |           |            |      |           |           |            |
| IPPU4       | <i>Ipomopsis pumila</i>                               | <i>Ipomopsis pumila</i>                                   | Fair      | Good      | Good       | Good | Fair      | Poor      | Poor       |
| IRMI        | <i>Iris missouriensis</i>                             | <i>Iris missouriensis</i>                                 | Poor      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| IVAX        | <i>Iva axillaris</i>                                  | <i>Iva axillaris</i>                                      | Poor-Fair | Poor-Fair | Fair-Good  | Good | Good      | Good      | Poor-Fair  |
| IVXA        | <i>Iva xanthifolia</i>                                | <i>Iva xanthifolia</i>                                    | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| JAAM        | <i>Jamesia americana</i>                              | <i>Jamesia americana</i>                                  |           |           |            |      |           |           |            |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>           | <i>Juncus balticus</i> var. <i>montanus</i>               | Poor      | Fair-Good | Fair       | Good | Good      | Fair-Good | Poor-Good  |
| JUBU        | <i>Juncus bufonius</i>                                | <i>Juncus bufonius</i>                                    |           |           |            |      |           |           |            |
| JUCO2       | <i>Juncus confusus</i>                                | <i>Juncus confusus</i>                                    |           |           |            |      |           |           |            |
| JUDR        | <i>Juncus drummondii</i>                              | <i>Juncus drummondii</i>                                  |           |           |            |      |           |           |            |
| JUIN2       | <i>Juncus interior</i>                                | <i>Juncus interior</i>                                    |           |           |            |      |           |           |            |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>     | <i>Juncus longistylis</i> var. <i>longistylis</i>         | Poor      | Fair      | Good       | Good | Good      | Good      | Fair       |
| JUMA4       | <i>Juncus marginatus</i>                              | <i>Juncus marginatus</i>                                  |           |           |            |      |           |           |            |
| JUME4       | <i>Juncus mexicanus</i>                               | <i>Juncus mexicanus</i>                                   |           |           |            |      |           |           |            |
| JUTE        | <i>Juncus tenuis</i>                                  | <i>Juncus tenuis</i>                                      |           |           |            |      |           |           |            |
| JUTO        | <i>Juncus torreyi</i>                                 | <i>Juncus torreyi</i>                                     |           |           |            |      |           |           |            |
| JUXI        | <i>Juncus xiphioides</i>                              | <i>Juncus xiphioides</i>                                  |           |           |            |      |           |           |            |
| JUCO6       | <i>Juniperus communis</i>                             | <i>Juniperus communis</i>                                 | Fair      | Fair      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| JUDE2       | <i>Juniperus deppeana</i>                             | <i>Juniperus deppeana</i>                                 |           |           |            |      |           |           |            |
| JUMO        | <i>Juniperus monosperma</i>                           | <i>Juniperus monosperma</i>                               | Fair      | Poor-Fair | Good       | Good | Fair-Good | Poor-Good | Poor-Fair  |
| JUSC2       | <i>Juniperus scopulorum</i>                           | <i>Juniperus scopulorum</i>                               | Fair      | Fair-Good | Good       | Good | Fair-Good | Fair      | Poor-Fair  |

# SOIL CON'T

| USDA Symbol | USDA NRCS PLANTS                                        | Martin and Hutchins (1980)                       | Gravel    | Sand      | Sandy Loam | Loam | Clay Loam | Clay      | Dense Clay |
|-------------|---------------------------------------------------------|--------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>                 |           |           |            |      |           |           |            |
| KOSC        | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                           | Fair      | Fair      | Fair-Good  | Good | Good      | Good      | Poor-Fair  |
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                         | Poor      | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                            |           |           |            |      |           |           |            |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                        |           |           |            |      |           |           |            |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                        |           |           |            |      |           |           |            |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                      |           |           |            |      |           |           |            |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                       |           |           |            |      |           |           |            |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                         |           |           |            |      |           |           |            |
| LASE        | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                          | Poor-Fair | Fair      | Good       | Good | Good      | Fair-Good | Poor       |
| LABI        | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                           |           |           |            |      |           |           |            |
| LASQ        | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                          |           | Fair      | Good       | Good | Good      | Fair      | Poor       |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                         | Fair      | Fair      | Good       | Good | Good      | Poor-Fair | Poor-Fair  |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                            |           |           |            |      |           |           |            |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus arizonicus</i>                       |           |           |            |      |           |           |            |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus leucanthus</i>                       | Poor      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| LEOR        | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                         | Poor      | Fair      | Fair       | Good | Good      | Fair      | Fair       |
| LEMI3       | <i>Lemna minor</i>                                      | <i>Lemna minor</i>                               |           |           |            |      |           |           |            |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>           | <i>Lepidium medium</i> var. <i>pubescens</i>     |           |           |            |      |           |           |            |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>        | <i>Lepidium medium</i> var. <i>medium</i>        |           |           |            |      |           |           |            |
| LEFE        | <i>Lesquerella fendleri</i>                             | <i>Lesquerella fendleri</i>                      |           |           |            |      |           |           |            |
| LEIN3       | <i>Lesquerella intermedia</i>                           | <i>Lesquerella intermedia</i>                    |           |           |            |      |           |           |            |
| LERE3       | <i>Lesquerella rectipes</i>                             | <i>Lesquerella rectipes</i>                      |           |           |            |      |           |           |            |
| CHER2       | <i>Chaetopappa ericoides</i>                            | <i>Leucelene ericoides</i>                       | Good      | Good      | Good       | Good | Good      | Fair      | Poor       |
| LIPU        | <i>Liatris punctata</i>                                 | <i>Liatris punctata</i>                          | Fair      | Good      | Good       | Good | Fair      | Fair      | Poor       |
| LIPO        | <i>Ligusticum porteri</i>                               | <i>Ligusticum porteri</i>                        | Poor-Fair | Poor-Fair | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i>        | <i>Lilium umbellatum</i>                         |           |           |            |      |           |           |            |
| LIAQ        | <i>Limosella aquatica</i>                               | <i>Limosella aquatica</i>                        |           |           |            |      |           |           |            |
| LIVU2       | <i>Linaria vulgaris</i>                                 | <i>Linaria vulgaris</i>                          | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>              | <i>Linum aristatum</i> var. <i>australe</i>      |           |           |            |      |           |           |            |
| LILE3       | <i>Linum lewisii</i>                                    | <i>Linum lewisii</i>                             | Poor-Fair | Poor-Fair | Good       | Good | Good      | Fair      | Poor       |
| LINE        | <i>Linum neomexicanum</i>                               | <i>Linum neomexicana</i>                         |           |           |            |      |           |           |            |
| LIPU4       | <i>Linum puberulum</i>                                  | <i>Linum puberulum</i>                           |           |           |            |      |           |           |            |
| LIRI        | <i>Linum rigidum</i>                                    | <i>Linum rigidum</i> "complex"                   |           |           |            |      |           |           |            |
| LICO7       | <i>Lithospermum cobrense</i>                            | <i>Lithospermum cobrense</i>                     |           |           |            |      |           |           |            |
| LIIN2       | <i>Lithospermum incisum</i>                             | <i>Lithospermum incisum</i>                      |           |           |            |      |           |           |            |
| LIMU3       | <i>Lithospermum multiflorum</i>                         | <i>Lithospermum multiflorum</i>                  |           |           |            |      |           |           |            |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>          | <i>Lobelia cardinalis</i> subsp. <i>graminae</i> |           |           |            |      |           |           |            |
| LOPE        | <i>Lolium perenne</i>                                   | <i>Lolium perenne</i>                            |           |           |            |      |           |           |            |

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|-------------|--------------------------------------------------------------------------|---------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| LOIN5       | <i>Lonicera involucrata</i>                                              | <i>Lonicera involucrata</i>                       | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| LOWR        | <i>Lotus wrightii</i>                                                    | <i>Lotus wrightii</i>                             |           |           |            |      |           |           |            |
| LUAL5       | <i>Lupinus X alpestris</i>                                               | <i>Lupinus alpestris</i>                          |           |           |            |      |           |           |            |
| LUAM        | <i>Lupinus ammophilus</i>                                                | <i>Lupinus ammophilus</i>                         |           |           |            |      |           |           |            |
| LUAR3       | <i>Lupinus argenteus</i>                                                 | <i>Lupinus argenteus</i>                          | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| LUBR2       | <i>Lupinus brevicaulis</i>                                               | <i>Lupinus brevicaulis</i>                        |           |           |            |      |           |           |            |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                          | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| LUKI        | <i>Lupinus kingii</i>                                                    | <i>Lupinus kingii</i>                             |           |           |            |      |           |           |            |
| LUPU        | <i>Lupinus pusillus</i>                                                  | <i>Lupinus pusillus</i>                           | Poor      | Good      | Good       | Fair | Poor      | Poor      | Poor       |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>                         | <i>Lupinus rubricaulis</i>                        |           |           |            |      |           |           |            |
| LUPA4       | <i>Luzula parviflora</i>                                                 | <i>Luzula parviflora</i>                          |           |           |            |      |           |           |            |
| LYPA        | <i>Lycium pallidum</i>                                                   | <i>Lycium pallidum</i>                            |           |           |            |      |           |           |            |
| LYAM        | <i>Lycopus americanus</i>                                                | <i>Lycopus americanus</i>                         |           |           |            |      |           |           |            |
| LYPH        | <i>Lycurus phleoides</i>                                                 | <i>Lycurus phleoides</i>                          |           |           |            |      |           |           |            |
| PSAS2       | <i>Psilactis asteroides</i>                                              | <i>Machaeranthera amplifolia</i>                  |           |           |            |      |           |           |            |
| MABI        | <i>Machaeranthera bigelovii</i>                                          | <i>Machaeranthera bigelovii</i>                   | Poor      | Fair      | Good       | Good | Good      | Poor      | Poor       |
| MACA2       | <i>Machaeranthera canescens</i>                                          | <i>Machaeranthera canescens</i>                   | Fair      | Good      | Good       | Good | Good      | Fair      | Poor       |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                    |           |           |            |      |           |           |            |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>               | Poor-Fair | Good      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                   |           |           |            |      |           |           |            |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                       |           |           |            |      |           |           |            |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                             |           |           |            |      |           |           |            |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                            |           |           |            |      |           |           |            |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                           |           |           |            |      |           |           |            |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                       |           |           |            |      |           |           |            |
| MAVU        | <i>Marrubium vulgare</i>                                                 | <i>Marrubium vulgare</i>                          |           |           |            |      |           |           |            |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                       | <i>Maurandya antirrhiniflora</i>                  |           |           |            |      |           |           |            |
| MELU        | <i>Medicago lupulina</i>                                                 | <i>Medicago lupulina</i>                          | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| MESA        | <i>Medicago sativa</i>                                                   | <i>Medicago sativa</i>                            | Poor-Fair | Fair      | Good       | Good | Good      | Fair-Good | Poor-Fair  |
| MELE2       | <i>Melampodium leucanthum</i>                                            | <i>Melampodium leucanthum</i>                     |           |           |            |      |           |           |            |
| MEPO        | <i>Melica porteri</i>                                                    | <i>Melica porteri</i>                             |           |           |            |      |           |           |            |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus albus</i>                            |           |           |            |      |           |           |            |
| MEIN2       | <i>Melilotus indicus</i>                                                 | <i>Melilotus indicus</i>                          |           |           |            |      |           |           |            |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus officinalis</i>                      | Fair-Good | Fair-Good | Good       | Good | Good      | Good      | Fair       |
| MESC        | <i>Menodora scabra</i>                                                   | <i>Menodora scabra</i>                            |           |           |            |      |           |           |            |
| MEAR4       | <i>Mentha arvensis</i>                                                   | <i>Mentha arvensis</i>                            |           |           |            |      |           |           |            |
| MEAL6       | <i>Mentzelia albicaulis</i>                                              | <i>Mentzelia albicaulis</i>                       | Poor-Fair | Good      | Good       | Good | Good      | Poor-Fair | Poor       |
| MELA        | <i>Mentzelia laciniata</i>                                               | <i>Mentzelia laciniata</i>                        |           |           |            |      |           |           |            |

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|-------------|------------------------------------------------------------------------|----------------------------------------------------|-----------|------|------------|------|-----------|-----------|------------|
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>                              | <i>Mentzelia nuda</i> var. <i>stricta</i>          |           |      |            |      |           |           |            |
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>                             | <i>Mentzelia pumila</i> var. <i>integra</i>        |           |      |            |      |           |           |            |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>                        | <i>Mentzelia pumila</i> var. <i>multiflora</i>     |           |      |            |      |           |           |            |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                     | <i>Mentzelia pumila</i> var. <i>pumila</i>         |           |      |            |      |           |           |            |
| MERU        | <i>Mentzelia rusbyi</i>                                                | <i>Mentzelia rusbyi</i>                            |           |      |            |      |           |           |            |
| MEBR        | <i>Mertensia brevistyla</i>                                            | <i>Mertensia brevistyla</i>                        |           |      |            |      |           |           |            |
| MEFR2       | <i>Mertensia franciscana</i>                                           | <i>Mertensia franciscana</i>                       |           |      |            |      |           |           |            |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i>                        | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   |           |      |            |      |           |           |            |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                     | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> | Poor      | Fair | Good       | Good | Good      | Poor      | Poor       |
| URLI2       | <i>Uropappus linearifolius</i>                                         | <i>Microseris linearifolia</i>                     |           |      |            |      |           |           |            |
|             |                                                                        | <i>Microseris minimus</i>                          |           |      |            |      |           |           |            |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                             | <i>Microsteris gracilis</i>                        |           |      |            |      |           |           |            |
| MIFL2       | <i>Mimulus floribundus</i>                                             | <i>Mimulus floribundus</i>                         |           |      |            |      |           |           |            |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                           | <i>Mimulus glabratus</i> var. <i>fremontii</i>     |           |      |            |      |           |           |            |
| MIGU        | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                            |           |      |            |      |           |           |            |
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                          |           |      |            |      |           |           |            |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                        |           |      |            |      |           |           |            |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                      |           |      |            |      |           |           |            |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                        |           |      |            |      |           |           |            |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                        |           |      |            |      |           |           |            |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                           |           |      |            |      |           |           |            |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                        |           |      |            |      |           |           |            |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                        |           |      |            |      |           |           |            |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                    | Poor      | Fair | Good       | Good | Good      | Good      | Poor-Fair  |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                     |           |      |            |      |           |           |            |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                       |           |      |            |      |           |           |            |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                        | Fair      | Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                     |           |      |            |      |           |           |            |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                        | Poor      | Good | Good       | Good | Good      | Fair      | Poor       |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                    |           |      |            |      |           |           |            |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                       | Poor-Fair | Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                         |           |      |            |      |           |           |            |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia torreyi</i>                        | Poor      | Fair | Good       | Good | Good      | Poor      | Poor       |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolfii</i>                         |           |      |            |      |           |           |            |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                       |           |      |            |      |           |           |            |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                            | Poor      | Good | Good       | Good | Fair      | Poor      | Poor       |
|             |                                                                        | <i>Myosurus minimus</i>                            |           |      |            |      |           |           |            |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                             |           |      |            |      |           |           |            |

## SOIL CON'T

| USDA Symbol | USDA NRCS PLANTS                                    | Martin and Hutchins (1980)                         | Gravel    | Sand      | Sandy Loam | Loam | Clay Loam | Clay      | Dense Clay |
|-------------|-----------------------------------------------------|----------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| NAHI        | <i>Nama hispidum</i>                                | <i>Nama hispidum</i> var. <i>hispidum</i>          |           |           |            |      |           |           |            |
| NECA2       | <i>Nepeta cataria</i>                               | <i>Nepeta cataria</i>                              |           |           |            |      |           |           |            |
| NIAT        | <i>Nicotiana attenuata</i>                          | <i>Nicotiana attenuata</i>                         |           |           |            |      |           |           |            |
| NOMI        | <i>Nolina microcarpa</i>                            | <i>Nolina microcarpa</i>                           |           |           |            |      |           |           |            |
| NOTHO       | <i>Notholaena</i>                                   | <i>Notholaena</i> spp.                             |           |           |            |      |           |           |            |
| NOST        | <i>Notholaena standleyi</i>                         | <i>Notholaena standleyi</i>                        |           |           |            |      |           |           |            |
| OEAL        | <i>Oenothera albicaulis</i>                         | <i>Oenothera albicaulis</i>                        |           |           |            |      |           |           |            |
| OECE2       | <i>Oenothera cespitosa</i>                          | <i>Oenothera caespitosa</i>                        | Poor-Fair | Good      | Good       | Good | Good      | Fair      | Poor       |
| OECEM3      | <i>Oenothera cespitosa</i> ssp. <i>macroglottis</i> | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>   |           |           |            |      |           |           |            |
| OECEC2      | <i>Oenothera cespitosa</i> ssp. <i>cespitosa</i>    | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  |           |           |            |      |           |           |            |
| OECO2       | <i>Oenothera coronopifolia</i>                      | <i>Oenothera coronopifolia</i>                     | Poor      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| OEFL        | <i>Oenothera flava</i>                              | <i>Oenothera flava</i>                             |           |           |            |      |           |           |            |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>          | <i>Oenothera hookeri</i>                           |           |           |            |      |           |           |            |
| OELA        | <i>Oenothera laciniata</i>                          | <i>Oenothera laciniata</i> var. <i>laciniata</i>   |           |           |            |      |           |           |            |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>        | <i>Oenothera pallida</i> subsp. <i>pallida</i>     |           |           |            |      |           |           |            |
| OEPR        | <i>Oenothera primiveris</i>                         | <i>Oenothera primiveris</i>                        |           |           |            |      |           |           |            |
| OPCL        | <i>Opuntia clavata</i>                              | <i>Opuntia clavata</i>                             |           |           |            |      |           |           |            |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>        | <i>Opuntia erinacea</i> var. <i>erinacea</i>       |           |           |            |      |           |           |            |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>       | <i>Opuntia erinacea</i> var. <i>utahensis</i>      |           |           |            |      |           |           |            |
| OPIM        | <i>Opuntia imbricata</i>                            | <i>Opuntia imbricata</i>                           | Fair      | Fair      | Good       | Good | Fair      | Fair      | Poor       |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>    | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   |           |           |            |      |           |           |            |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>  | <i>Opuntia phaeacantha</i> var. <i>discata</i>     |           |           |            |      |           |           |            |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>  | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> |           |           |            |      |           |           |            |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>  | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> | Poor      | Fair-Good | Fair-Good  | Good | Good      | Poor-Fair | Poor       |
| ORFA        | <i>Orobanche fasciculata</i>                        | <i>Orobanche fasciculata</i> var. <i>lutea</i>     |           |           |            |      |           |           |            |
| ORLU        | <i>Orobanche ludoviciana</i>                        | <i>Orobanche ludoviciana</i>                       |           |           |            |      |           |           |            |
| ORLUM       | <i>Orobanche ludoviciana</i> ssp. <i>multiflora</i> | <i>Orobanche multiflora</i>                        |           |           |            |      |           |           |            |
| ORLU2       | <i>Orthocarpus luteus</i>                           | <i>Orthocarpus luteus</i>                          | Fair      | Good      | Good       | Good | Good      | Fair      | Fair       |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                    | <i>Orthocarpus purpureo-albus</i>                  |           |           |            |      |           |           |            |
| ORAS        | <i>Oryzopsis asperifolia</i>                        | <i>Oryzopsis asperifolia</i>                       |           |           |            |      |           |           |            |
| ACHY        | <i>Achnatherum hymenoides</i>                       | <i>Oryzopsis hymenoides</i>                        | Poor-Fair | Good      | Good       | Good | Good      | Poor-Fair | Poor-Fair  |
| PIMI7       | <i>Piptatherum micranthum</i>                       | <i>Oryzopsis micrantha</i>                         | Fair      | Good      | Good       | Good | Good      | Fair      | Poor       |
| OSDE        | <i>Osmorhiza depauperata</i>                        | <i>Osmorhiza obtusa</i>                            |           |           |            |      |           |           |            |
| OXAL2       | <i>Oxalis alpina</i>                                | <i>Oxalis metcalfei</i>                            |           |           |            |      |           |           |            |
| OXVI        | <i>Oxalis violacea</i>                              | <i>Oxalis violacea</i>                             |           |           |            |      |           |           |            |
| MIHI        | <i>Mirabilis hirsuta</i>                            | <i>Oxybaphus hirsutus</i>                          |           |           |            |      |           |           |            |
| MILI3       | <i>Mirabilis linearis</i>                           | <i>Oxybaphus linearis</i> var. <i>linearis</i>     |           |           |            |      |           |           |            |
| OXFE        | <i>Oxypolis fendleri</i>                            | <i>Oxypolis fendleri</i>                           |           |           |            |      |           |           |            |
| OXLA3       | <i>Oxytropis lambertii</i>                          | <i>Oxytropis lambertii</i>                         | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |

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|-------------|-------------------------------------------------------------|----------------------------------------------------------|--------|-----------|------------|------|-----------|-----------|------------|
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                             |        |           |            |      |           |           |            |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                                  |        |           |            |      |           |           |            |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i>           | Poor   | Fair      | Good       | Good | Good      | Fair      | Fair       |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                                    |        |           |            |      |           |           |            |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                                   |        |           |            |      |           |           |            |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                                 |        |           |            |      |           |           |            |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                                   |        |           |            |      |           |           |            |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                             |        |           |            |      |           |           |            |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                              |        |           |            |      |           |           |            |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                                  | Poor   | Fair-Good | Good       | Good | Good      | Fair-Good | Poor-Fair  |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                                |        |           |            |      |           |           |            |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                            |        |           |            |      |           |           |            |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                               |        |           |            |      |           |           |            |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                                    |        |           |            |      |           |           |            |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                                 |        |           |            |      |           |           |            |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                         |        |           |            |      |           |           |            |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                              |        |           |            |      |           |           |            |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                                  |        |           |            |      |           |           |            |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                                 |        |           |            |      |           |           |            |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                            |        |           |            |      |           |           |            |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>          |        |           |            |      |           |           |            |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                                 | Good   | Fair      | Good       | Good | Good      | Fair      |            |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                                |        |           |            |      |           |           |            |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                                 |        |           |            |      |           |           |            |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                                  |        |           |            |      |           |           |            |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>      | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> |        |           |            |      |           |           |            |
| PEOL        | <i>Penstemon oliganthus</i>                                 | <i>Penstemon oliganthus</i>                              |        |           |            |      |           |           |            |
| PERY        | <i>Penstemon rydbergii</i>                                  | <i>Penstemon rydbergii</i>                               |        |           |            |      |           |           |            |
| PESE11      | <i>Penstemon secundiflorus</i>                              | <i>Penstemon secundiflorus</i>                           |        |           |            |      |           |           |            |
| PEVI4       | <i>Penstemon virgatus</i>                                   | <i>Penstemon virgatus</i>                                |        |           |            |      |           |           |            |
| PEWH        | <i>Penstemon whippleanus</i>                                | <i>Penstemon whippleanus</i>                             | Good   | Fair      | Good       | Good | Good      | Fair      | Poor       |
| PECA10      | <i>Pericome caudata</i>                                     | <i>Pericome caudata</i>                                  |        |           |            |      |           |           |            |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                    | <i>Petalostemum candidum</i>                             |        |           |            |      |           |           |            |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                  | <i>Petalostemum compactum</i>                            |        |           |            |      |           |           |            |
| DAEX2       | <i>Dalea exigua</i>                                         | <i>Petalostemum exile</i>                                |        |           |            |      |           |           |            |

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| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                | <i>Petalostemum purpureum</i>                             |           |           |            |      |           |           |            |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                  | <i>Petalostemum villosum</i>                              |           |           |            |      |           |           |            |
| PHCO        | <i>Phacelia coerulea</i>                                  | <i>Phacelia coerulea</i>                                  |           |           |            |      |           |           |            |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>           | <i>Phacelia corrugata</i>                                 |           |           |            |      |           |           |            |
| PHHE2       | <i>Phacelia heterophylla</i>                              | <i>Phacelia heterophylla</i>                              |           |           |            |      |           |           |            |
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              |           |           |            |      |           |           |            |
| PHEG        | <i>Phacelia egena</i>                                     | <i>Phacelia magellanica</i>                               |           |           |            |      |           |           |            |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       |           |           |            |      |           |           |            |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            |           |           |            |      |           |           |            |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              |           |           |            |      |           |           |            |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> |           |           |            |      |           |           |            |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     | Poor      | Poor-Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    | Poor-Fair | Poor-Fair | Good       | Good | Good      | Fair      | Poor       |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   | Good      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             |           |           |            |      |           |           |            |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                |           |           |            |      |           |           |            |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           |           |           |            |      |           |           |            |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        |           |           |            |      |           |           |            |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 |           |           |            |      |           |           |            |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               |           |           |            |      |           |           |            |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | Poor-Good | Poor-Fair | Good       | Good | Good      | Poor-Fair | Poor-Fair  |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | Poor-Good | Good-Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | Poor-Good | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     | Poor-Good | Poor-Fair | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | Poor-Fair | Fair-Good | Good       | Good | Good      | Poor-Fair | Poor       |
| PLAR2       | <i>Plantago argyraea</i>                                  | <i>Plantago argyraea</i>                                  |           |           |            |      |           |           |            |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     |           |           |            |      |           |           |            |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   |           |           |            |      |           |           |            |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          |           |           |            |      |           |           |            |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      |           |           |            |      |           |           |            |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      | Poor-Fair | Fair      | Good       | Good | Good      | Fair      | Poor       |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    | Poor-Fair | Poor-Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       |           |           |            |      |           |           |            |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    |           |           |            |      |           |           |            |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     | Poor      | Poor-Fair | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    |           |           |            |      |           |           |            |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      | Poor      | Fair      | Good       | Good | Good      | Fair-Good | Poor-Fair  |



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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------|-----------|------------|-----------|-----------|-----------|------------|
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             |           |           |            |           |           |           |            |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | Poor-Fair | Fair      | Good       | Good      | Good      | Poor-Fair | Poor       |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        |           |           |            |           |           |           |            |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                | Fair      | Fair      | Good       | Good      | Good      | Good      | Fair       |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             | Poor-Fair | Poor-Fair | Good       | Good      | Good      | Poor-Fair | Poor       |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              |           |           |            |           |           |           |            |
| PODO4       | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                | Fair      | Good      | Good       | Good      | Good      | Good      | Fair       |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>          | <i>Polygonum montanum</i>                                 |           |           |            |           |           |           |            |
| POPE3       | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                               | Poor      | Fair      | Good       | Good      | Good      | Good      | Fair       |
| PORA3       | <i>Polygonum ramosissimum</i>                             | <i>Polygonum ramosissimum</i>                             | Fair      | Good      | Good       | Good      | Good      | Fair      | Poor       |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i>         | <i>Polygonum sawatchense</i>                              |           |           |            |           |           |           |            |
| POMO5       | <i>Polypogon monspeliensis</i>                            | <i>Polypogon monspeliensis</i>                            |           |           |            |           |           |           |            |
| POAN3       | <i>Populus angustifolia</i>                               | <i>Populus angustifolia</i>                               | Fair      | Fair-Good | Good       | Good      | Good      | Poor-Fair | Poor       |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>            | <i>Populus fremontii</i> var. <i>wislizenii</i>           | Fair      | Fair      | Good       | Good      | Good      | Poor      | Poor       |
| POTR5       | <i>Populus tremuloides</i>                                | <i>Populus tremuloides</i> var. <i>aurea</i>              | Poor-Fair | Fair      | Good       | Good      | Good      | Poor-Fair | Poor       |
| POOL        | <i>Portulaca oleracea</i>                                 | <i>Portulaca oleracea</i>                                 |           |           |            |           |           |           |            |
| ARAN7       | <i>Argentina anserina</i>                                 | <i>Potentilla anserina</i>                                | Fair      | Fair      | Good       | Good      | Good      | Fair      | Poor       |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>          | <i>Potentilla arguta</i> subsp. <i>convallaria</i>        |           |           |            |           |           |           |            |
| POCO13      | <i>Potentilla concinna</i>                                | <i>Potentilla concinna</i>                                |           |           |            |           |           |           |            |
| POCR4       | <i>Potentilla crinita</i>                                 | <i>Potentilla crinita</i>                                 |           |           |            |           |           |           |            |
| PEFL15      | <i>Pentaphylloides floribunda</i>                         | <i>Potentilla fruticosa</i>                               | Fair      | Fair      | Good       | Good      | Good      | Fair-Good | Poor-Fair  |
| POHI6       | <i>Potentilla hippiana</i>                                | <i>Potentilla hippiana</i>                                |           |           |            |           |           |           |            |
| PONO3       | <i>Potentilla norvegica</i>                               | <i>Potentilla norvegica</i>                               |           |           |            |           |           |           |            |
| POPE8       | <i>Potentilla pennsylvanica</i>                           | <i>Potentilla pennsylvanica</i>                           |           |           |            |           |           |           |            |
| POPU9       | <i>Potentilla pulcherrima</i>                             | <i>Potentilla pulcherrima</i>                             |           |           |            |           |           |           |            |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>           | <i>Potentilla thurberi</i> var. <i>thurberi</i>           |           |           |            |           |           |           |            |
| PRRU        | <i>Primula rusbyi</i>                                     | <i>Primula rusbyi</i>                                     |           |           |            |           |           |           |            |
| PRVU        | <i>Prunella vulgaris</i>                                  | <i>Prunella vulgaris</i>                                  |           |           |            |           |           |           |            |
| PRAM        | <i>Prunus americana</i>                                   | <i>Prunus americana</i>                                   | Poor      | Fair      | Good       | Good      | Good      | Poor      | Poor       |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>           | <i>Prunus emarginata</i> var. <i>emarginata</i>           |           |           |            |           |           |           |            |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          | Poor-Fair | Good-Fair | Good       | Good      | Good      | Poor-Fair | Poor-Fair  |
| PSMO        | <i>Pseudocymopterus montanus</i>                          | <i>Pseudocymopterus montanus</i>                          |           |           |            |           |           |           |            |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | Poor-Fair | Fair      | Good       | Good      | Good      | Poor-Good | Poor-Fair  |
| PSTA        | <i>Psilotrophe tagetina</i>                               | <i>Psilotrophe tagetina</i>                               |           |           |            |           |           |           |            |
| PEHYH       | <i>Pediomelum hypogaeum</i> var. <i>hypogaeum</i>         | <i>Psoralea hypogaea</i>                                  |           |           |            |           |           |           |            |
| PSLA3       | <i>Psoralidium lanceolatum</i>                            | <i>Psoralea lanceolata</i>                                | Fair      | Good      | Fair-Good  | Poor-Good | Poor-Good | Poor-Fair | Poor       |
| PSTE5       | <i>Psoralidium tenuiflorum</i>                            | <i>Psoralea tenuiflora</i>                                | Poor-Fair | Good      | Good       | Good      | Fair      | Poor-Fair | Poor       |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>         | <i>Ptelea trifoliata</i> susp. <i>angustifolia</i>        |           |           |            |           |           |           |            |

# SOIL CON'T

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|-------------|-----------------------------------------------------------|-------------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>          | <i>Pteridium aquilinum</i> var. <i>pubescens</i>      |           |           |            |      |           |           |            |
| PTAN2       | <i>Pterospora andromedea</i>                              | <i>Pterospora andromedea</i>                          |           |           |            |      |           |           |            |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>            | <i>Pulsatilla ludoviciana</i>                         |           |           |            |      |           |           |            |
| PUTR2       | <i>Purshia tridentata</i>                                 | <i>Purshia tridentata</i>                             | Poor-Fair | Fair-Good | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| PYAS        | <i>Pyrola asarifolia</i>                                  | <i>Pyrola asarifolia</i>                              |           |           |            |      |           |           |            |
| PYCH        | <i>Pyrola chlorantha</i>                                  | <i>Pyrola chlorantha</i>                              |           |           |            |      |           |           |            |
| PYEL        | <i>Pyrola elliptica</i>                                   | <i>Pyrola elliptica</i>                               |           |           |            |      |           |           |            |
| PYMI        | <i>Pyrola minor</i>                                       | <i>Pyrola minor</i>                                   |           |           |            |      |           |           |            |
| PYPI2       | <i>Pyrola picta</i>                                       | <i>Pyrola picta</i>                                   |           |           |            |      |           |           |            |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       |           |           |            |      |           |           |            |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               | Poor-Fair | Fair      | Good       | Good | Good      | Fair      | Poor       |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 |           |           |            |      |           |           |            |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                |           |           |            |      |           |           |            |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               |           |           |            |      |           |           |            |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              |           |           |            |      |           |           |            |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           |           |           |            |      |           |           |            |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   | Fair      | Good      | Good       | Good | Good      | Good      | Good       |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       |           |           |            |      |           |           |            |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> | Fair      | Good      | Good       | Good | Good      | Fair      | Fair       |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           |           |           |            |      |           |           |            |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            |           |           |            |      |           |           |            |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          |           |           |            |      |           |           |            |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   |           |           |            |      |           |           |            |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           | Poor      | Poor      | Good       | Good | Good      | Poor      | Poor       |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               |           |           |            |      |           |           |            |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    | Poor-Good | Fair-Good | Good       | Good | Fair-Good | Fair-Poor | Poor       |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i>        | <i>Rhus radicans</i>                                  |           |           |            |      |           |           |            |
| RHTR        | <i>Rhus trilobata</i>                                     | <i>Rhus trilobata</i>                                 | Poor-Good | Fair-Good | Good       | Good | Good      | Poor-Good | Poor-Fair  |
| RICE        | <i>Ribes cereum</i>                                       | <i>Ribes cereum</i>                                   | Poor-Good | Poor-Fair | Good       | Good | Poor-Good | Poor-Fair | Poor       |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>               | <i>Ribes inebrians</i>                                |           |           |            |      |           |           |            |
| RIIN2       | <i>Ribes inerme</i>                                       | <i>Ribes inerme</i>                                   | Good      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| RILE        | <i>Ribes leptanthum</i>                                   | <i>Ribes leptanthum</i>                               |           |           |            |      |           |           |            |
| RIMO2       | <i>Ribes montigenum</i>                                   | <i>Ribes montigenum</i>                               | Good      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| RIPI        | <i>Ribes pinetorum</i>                                    | <i>Ribes pinetorum</i>                                |           |           |            |      |           |           |            |
| RIWO        | <i>Ribes wolfii</i>                                       | <i>Ribes wolfii</i>                                   |           |           |            |      |           |           |            |
| RONE        | <i>Robinia neomexicana</i>                                | <i>Robinia neomexicana</i>                            | Good      | Good      | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| ROIS2       | <i>Rorippa islandica</i>                                  | <i>Rorippa islandica</i>                              |           |           |            |      |           |           |            |

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| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                    | <i>Rorippa nasturtium-aquaticum</i>                      | Good      | Good      | Good       | Good | Good      | Fair      | Good       |
| ROTE2       | <i>Rorippa teres</i>                                   | <i>Rorippa obtusa</i>                                    |           |           |            |      |           |           |            |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>femaldiana</i>        | <i>Rorippa palustris</i> subsp. <i>glabra</i>            |           |           |            |      |           |           |            |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>           | <i>Rorippa palustris</i> subsp. <i>hispida</i>           |           |           |            |      |           |           |            |
| ROSI2       | <i>Rorippa sinuata</i>                                 | <i>Rorippa sinuata</i>                                   |           |           |            |      |           |           |            |
| ROSY        | <i>Rorippa sylvestris</i>                              | <i>Rorippa sylvestris</i>                                |           |           |            |      |           |           |            |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>           | <i>Rorippa truncata</i>                                  |           |           |            |      |           |           |            |
| RONU        | <i>Rosa nutkana</i>                                    | <i>Rosa nutkana</i>                                      |           |           |            |      |           |           |            |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>arizonica</i>                | Poor      | Fair      | Good       | Good | Good      | Poor      | Poor       |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>fendleri</i>                 |           |           |            |      |           |           |            |
| RUPA        | <i>Rubus parviflorus</i>                               | <i>Rubus parviflorus</i>                                 | Poor-Fair | Poor-Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>              | <i>Rubus strigosus</i> var. <i>arizonicus</i>            |           |           |            |      |           |           |            |
| RUHI2       | <i>Rudbeckia hirta</i>                                 | <i>Rudbeckia hirta</i>                                   |           |           |            |      |           |           |            |
| RULA3       | <i>Rudbeckia laciniata</i>                             | <i>Rudbeckia laciniata</i>                               | Poor      | Poor      | Good       | Good | Good      | Poor      | Poor       |
| RUAC3       | <i>Rumex acetosella</i>                                | <i>Rumex acetosella</i>                                  | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| RUCR        | <i>Rumex crispus</i>                                   | <i>Rumex crispus</i>                                     | Poor-Fair | Fair-Good | Good       | Good | Good      | Fair      | Poor       |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex mexicanus</i>                                   |           |           |            |      |           |           |            |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                |           |           |            |      |           |           |            |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   |           |           |            |      |           |           |            |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             |           |           |            |      |           |           |            |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    | Poor-Fair | Good      | Good       | Good | Good      | Poor-Fair | Poor-Fair  |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     |           |           |            |      |           |           |            |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      | Poor-Fair | Good      | Good       | Good | Good      | Poor-Good | Poor-Fair  |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    |           |           |            |      |           |           |            |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 | Poor-Fair | Poor-Good | Good       | Good | Good      | Poor-Fair | Poor-Fair  |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  |           |           |            |      |           |           |            |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    |           |           |            |      |           |           |            |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  |           |           |            |      |           |           |            |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              |           |           |            |      |           |           |            |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |           |           |            |      |           |           |            |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                |           |           |            |      |           |           |            |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             |           |           |            |      |           |           |            |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           | Poor-Fair | Good-Fair | Good       | Good | Good      | Fair-Good | Poor-Fair  |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> |           |           |            |      |           |           |            |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              |           |           |            |      |           |           |            |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         | Fair      | Good      | Good       | Good | Fair      | Poor      | Poor-Fair  |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           |           |           |            |      |           |           |            |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           |           |           |            |      |           |           |            |

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|-------------|-------------------------------------------------------|-----------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| SCCA11      | <i>Schoenoplectus californicus</i>                    | <i>Scripus californicus</i>                         |           |           |            |      |           |           |            |
| SECO        | <i>Sedum cockerellii</i>                              | <i>Sedum cockerellii</i>                            |           |           |            |      |           |           |            |
| SEAR3       | <i>Senecio arizonicus</i>                             | <i>Senecio arizonicus</i>                           |           |           |            |      |           |           |            |
| SEAT        | <i>Senecio atratus</i>                                | <i>Senecio atratus</i>                              |           |           |            |      |           |           |            |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>        | <i>Senecio bigelovii</i> var. <i>bigelovii</i>      |           |           |            |      |           |           |            |
| SECR        | <i>Senecio crassulus</i>                              | <i>Senecio crassulus</i>                            | Fair      | Good      | Good       | Good | Good      | Fair      | Poor       |
| SECY        | <i>Senecio cymbalarioides</i>                         | <i>Senecio cymbalarioides</i>                       |           |           |            |      |           |           |            |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>        | <i>Senecio douglasii</i> var. <i>longilobus</i>     |           |           |            |      |           |           |            |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougallii</i>   | <i>Senecio eremophilus</i> var. <i>macdougallii</i> |           |           |            |      |           |           |            |
| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>                           |           |           |            |      |           |           |            |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>                             |           |           |            |      |           |           |            |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                       |           |           |            |      |           |           |            |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                         | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>                         |           |           |            |      |           |           |            |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>                          |           |           |            |      |           |           |            |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>                         |           |           |            |      |           |           |            |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>                          |           |           |            |      |           |           |            |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>                         | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| SEWE2       | <i>Senecio wernerifolius</i>                          | <i>Senecio werneriaefolius</i>                      |           |           |            |      |           |           |            |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                             |           |           |            |      |           |           |            |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                           |           |           |            |      |           |           |            |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                            |           |           |            |      |           |           |            |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                         |           |           |            |      |           |           |            |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                              | Poor      | Fair      | Good       | Good | Good      | Fair      | Fair       |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                             |           |           |            |      |           |           |            |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                            |           |           |            |      |           |           |            |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                            |           |           |            |      |           |           |            |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                              |           |           |            |      |           |           |            |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                        | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                             |           |           |            |      |           |           |            |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                        |           |           |            |      |           |           |            |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                        |           |           |            |      |           |           |            |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>                        |           |           |            |      |           |           |            |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystrix</i>                             | Poor-Fair | Good      | Good       | Good | Good      | Fair      | Poor       |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>    | <i>Smilacina racemosa</i>                           | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| MAST4       | <i>Maianthemum stellatum</i>                          | <i>Smilacina stellata</i>                           | Poor-Fair | Poor-Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| SOAM        | <i>Solanum americanum</i>                             | <i>Solanum americanum</i>                           |           |           |            |      |           |           |            |
| SODO        | <i>Solanum douglasii</i>                              | <i>Solanum douglasii</i>                            |           |           |            |      |           |           |            |

## SOIL CON'T

| USDA Symbol | USDA NRCS PLANTS                                                | Martin and Hutchins (1980)                            | Gravel    | Sand      | Sandy Loam | Loam      | Clay Loam | Clay      | Dense Clay |
|-------------|-----------------------------------------------------------------|-------------------------------------------------------|-----------|-----------|------------|-----------|-----------|-----------|------------|
| SOEL        | <i>Solanum elaeagnifolium</i>                                   | <i>Solanum elaeagnifolium</i>                         |           |           |            |           |           |           |            |
| SOJA        | <i>Solanum jamesii</i>                                          | <i>Solanum jamesii</i>                                |           |           |            |           |           |           |            |
| SOPT3       | <i>Solanum ptychanthum</i>                                      | <i>Solanum nigrum</i>                                 |           |           |            |           |           |           |            |
| SORO        | <i>Solanum rostratum</i>                                        | <i>Solanum rostratum</i>                              | Fair      | Fair      | Good       | Good      | Good      | Fair      | Fair       |
| SOSA        | <i>Solanum sarrachoides</i>                                     | <i>Solanum sarachoides</i>                            |           |           |            |           |           |           |            |
| SOTR        | <i>Solanum triflorum</i>                                        | <i>Solanum triflorum</i>                              |           |           |            |           |           |           |            |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             |           |           |            |           |           |           |            |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     | Poor-Fair | Poor-Fair | Good       | Good      | Good      | Poor-Fair | Poor       |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> | Poor-Fair | Poor-Fair | Good       | Good      | Good      | Poor-Fair | Poor       |
| SOMO        | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                |           |           |            |           |           |           |            |
| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          |           |           |            |           |           |           |            |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          | Fair      | Fair      | Good       | Good      | Good      | Fair      | Poor       |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               |           |           |            |           |           |           |            |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            |           |           |            |           |           |           |            |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           |           |           |            |           |           |           |            |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    |           |           |            |           |           |           |            |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         |           |           |            |           |           |           |            |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  |           |           |            |           |           |           |            |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              |           |           |            |           |           |           |            |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            |           |           |            |           |           |           |            |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             | Poor      | Good      | Good       | Good      | Good      | Fair      | Poor       |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             |           |           |            |           |           |           |            |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> |           |           |            |           |           |           |            |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         | Poor-Fair | Fair-Good | Good       | Good      | Good      | Fair      | Poor       |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      |           |           |            |           |           |           |            |
| SPIN2       | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             |           |           |            |           |           |           |            |
| SPIN3       | <i>Sphenopholis intermedia</i>                                  | <i>Sphenopholis intermedia</i>                        |           |           |            |           |           |           |            |
| SPAI        | <i>Sporobolus airoides</i>                                      | <i>Sporobolus airoides</i>                            | Poor      | Fair      | Good       | Good      | Good      | Fair-Good | Poor-Fair  |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i>             | <i>Sporobolus asper</i>                               |           |           |            |           |           |           |            |
| SPCO4       | <i>Sporobolus contractus</i>                                    | <i>Sporobolus contractus</i>                          | Poor      | Good      | Good       | Good      | Good      | Fair      | Fair       |
| SPCR        | <i>Sporobolus cryptandrus</i>                                   | <i>Sporobolus cryptandrus</i>                         | Poor-Fair | Good      | Good       | Good      | Poor-Good | Poor-Fair | Poor       |
| SPNE        | <i>Sporobolus nealleyi</i>                                      | <i>Sporobolus nealleyi</i>                            |           |           |            |           |           |           |            |
| SPT5        | <i>Sporobolus texanus</i>                                       | <i>Sporobolus texanus</i>                             |           |           |            |           |           |           |            |
| STPA        | <i>Stachys palustris</i>                                        | <i>Stachys palustris</i>                              |           |           |            |           |           |           |            |
| STPI        | <i>Stanleya pinnata</i>                                         | <i>Stanleya pinnata</i>                               | Poor-Fair | Poor-Good | Poor-Good  | Fair-Good | Good      | Good-Fair | Poor       |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                                | <i>Stellaria jamesiana</i>                            | Poor      | Poor      | Good       | Good      | Good      | Poor      | Poor       |
| STLO        | <i>Stellaria longifolia</i>                                     | <i>Stellaria longifolia</i>                           |           |           |            |           |           |           |            |
| STLO2       | <i>Stellaria longipes</i>                                       | <i>Stellaria longipes</i>                             |           |           |            |           |           |           |            |

# SOIL CON'T

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|-------------|------------------------------------------------------------|------------------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| STPA4       | <i>Stephanomeria pauciflora</i>                            | <i>Stephanomeria pauciflora</i>                            |           |           |            |      |           |           |            |
| STTE2       | <i>Stephanomeria tenuifolia</i>                            | <i>Stephanomeria tenuifolia</i>                            |           |           |            |      |           |           |            |
| ACNE2       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>              | <i>Stipa columbiana</i>                                    | Poor      | Poor-Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>              | <i>Stipa comata</i>                                        | Poor      | Good      | Good       | Good | Fair-Good | Poor      | Poor       |
| ACEM4       | <i>Achnatherum eminens</i>                                 | <i>Stipa eminens</i>                                       |           |           |            |      |           |           |            |
| ACLE9       | <i>Achnatherum lettermanii</i>                             | <i>Stipa lettermanii</i>                                   | Poor      | Poor-Fair | Good       | Good | Good      | Fair      | Poor       |
| HENE5       | <i>Hesperostipa neomexicana</i>                            | <i>Stipa neomexicana</i>                                   |           |           |            |      |           |           |            |
| ACRO7       | <i>Achnatherum robustum</i>                                | <i>Stipa robusta</i>                                       |           |           |            |      |           |           |            |
| STCO6       | <i>Streptanthus cordatus</i>                               | <i>Streptanthus cordatus</i>                               |           |           |            |      |           |           |            |
| STAM2       | <i>Streptopus amplexifolius</i>                            | <i>Streptopus amplexifolius</i>                            |           |           |            |      |           |           |            |
| FRSP        | <i>Frasera speciosa</i>                                    | <i>Swertia radiata</i>                                     |           |           |            |      |           |           |            |
| SYOC        | <i>Symphoricarpos occidentalis</i>                         | <i>Symphoricarpos occidentalis</i>                         | Poor-Fair | Poor-Good | Good       | Good | Good      | Poor-Fair | Poor       |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                           | <i>Symphoricarpos oreophilus</i>                           | Poor-Fair | Fair-Good | Good       | Good | Good      | Poor-Fair | Poor       |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                          | <i>Symphoricarpos rotundifolius</i>                        |           |           |            |      |           |           |            |
| TAPA3       | <i>Talinum parviflorum</i>                                 | <i>Talinum parviflorum</i>                                 |           |           |            |      |           |           |            |
| TAGA        | <i>Tamarix gallica</i>                                     | <i>Tamarix gallica</i>                                     |           |           |            |      |           |           |            |
| TACH2       | <i>Tamarix chinensis</i>                                   | <i>Tamarix pentandra</i>                                   | Fair      | Good      | Good       | Good | Good      | Fair-Good | Poor-Fair  |
| TALA2       | <i>Taraxacum laevigatum</i>                                | <i>Taraxacum laevigatum</i>                                |           |           |            |      |           |           |            |
| TAOF        | <i>Taraxacum officinale</i>                                | <i>Taraxacum officinale</i>                                | Fair      | Fair      | Good       | Good | Good      | Good      | Poor-Fair  |
| TECA2       | <i>Tetradymia canescens</i>                                | <i>Tetradymia canescens</i>                                | Poor-Fair | Fair      | Good       | Good | Good      | Poor-Fair | Poor       |
| TECA2       | <i>Tetradymia canescens</i>                                | <i>Tetradymia canescens</i> var. <i>inermis</i>            |           |           |            |      |           |           |            |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | Poor      | Poor      | Good       | Good | Good      | Poor      | Poor       |
| THFI        | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      |           |           |            |      |           |           |            |
| THME        | <i>Thelesperma megapotamicum</i>                           | <i>Thelesperma megapotamicum</i>                           |           |           |            |      |           |           |            |
| THFI        | <i>Thelesperma filifolium</i> var. <i>filifolium</i>       | <i>Thelesperma trifidum</i>                                |           |           |            |      |           |           |            |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i> | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> |           |           |            |      |           |           |            |
| THWR        | <i>Thelypodium wrightii</i>                                | <i>Thelypodium wrightii</i>                                |           |           |            |      |           |           |            |
| THMO6       | <i>Thermopsis montana</i>                                  | <i>Thermopsis montanum</i>                                 |           |           |            |      |           |           |            |
| THDI4       | <i>Thermopsis divaricarpa</i>                              | <i>Thermopsis pinetorum</i>                                |           |           |            |      |           |           |            |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>               | <i>Thlaspi alpestre</i>                                    |           |           |            |      |           |           |            |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>         | <i>Torreyochloa pauciflora</i>                             |           |           |            |      |           |           |            |
| TOAN        | <i>Townsendia annua</i>                                    | <i>Townsendia annua</i>                                    |           |           |            |      |           |           |            |
| TOEX        | <i>Townsendia eximia</i>                                   | <i>Townsendia eximia</i>                                   |           |           |            |      |           |           |            |
| TOFO        | <i>Townsendia formosa</i>                                  | <i>Townsendia formosa</i>                                  |           |           |            |      |           |           |            |
| TOIN        | <i>Townsendia incana</i>                                   | <i>Townsendia incana</i>                                   |           |           |            |      |           |           |            |
| TOEX2       | <i>Townsendia exscapa</i>                                  | <i>Townsendia exscapa</i>                                  |           |           |            |      |           |           |            |
| TRNE        | <i>Tragia nepetifolia</i>                                  | <i>Tragia nepetaefolia</i>                                 |           |           |            |      |           |           |            |
| TRDU        | <i>Tragopogon dubius</i>                                   | <i>Tragopogon dubius</i>                                   | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |

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|-------------|------------------------------------------------------------|------------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| TRPR        | <i>Tragopogon pratensis</i>                                | <i>Tragopogon pratensis</i>                          | Fair      | Good      | Good       | Good | Good      | Fair      | Poor       |
| TRCAO       | <i>Trautvetteria carolinensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                         |           |           |            |      |           |           |            |
| TRTE        | <i>Tribulus terrestris</i>                                 | <i>Tribulus terrestris</i>                           |           |           |            |      |           |           |            |
| ERPU8       | <i>Erioneuron pulchellum</i>                               | <i>Tridens pulchellus</i>                            |           |           |            |      |           |           |            |
| TRDA2       | <i>Trifolium dasyphyllum</i>                               | <i>Trifolium dasyphyllum</i>                         | Fair-Good | Fair-Good | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| TRHY        | <i>Trifolium hybridum</i>                                  | <i>Trifolium hybridum</i>                            | Poor-Fair | Poor-Fair | Good       | Good | Good      | Fair      | Poor       |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>            | <i>Trifolium lacerum</i>                             |           |           |            |      |           |           |            |
| TRPR2       | <i>Trifolium pratense</i>                                  | <i>Trifolium pratense</i>                            | Poor-Fair | Fair-Good | Good       | Good | Good      | Fair      | Poor       |
| TRCA5       | <i>Trifolium campestre</i>                                 | <i>Trifolium procumbens</i>                          |           |           |            |      |           |           |            |
| TRRE3       | <i>Trifolium repens</i>                                    | <i>Trifolium repens</i>                              | Poor-Fair | Poor-Good | Good       | Good | Good      | Fair      | Poor       |
| TRPE4       | <i>Triodanis perfoliata</i>                                | <i>Triodanis perfoliata</i>                          |           |           |            |      |           |           |            |
| TRMO5       | <i>Trisetum montanum</i>                                   | <i>Trisetum montanum</i>                             |           |           |            |      |           |           |            |
| TRSP2       | <i>Trisetum spicatum</i>                                   | <i>Trisetum spicatum</i>                             | Poor-Fair | Poor-Fair | Good       | Good | Good      | Poor-Fair | Poor       |
| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                               | Poor-Fair | Good      | Good       | Good | Good      | Fair-Good | Poor-Fair  |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         |           |           |            |      |           |           |            |
| URGR        | <i>Urtica gracilentia</i>                                  | <i>Urtica gracilentia</i>                            |           |           |            |      |           |           |            |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               |           |           |            |      |           |           |            |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           | Poor-Fair | Poor-Good | Good       | Good | Fair-Good | Poor-Fair | Poor       |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           |           |           |            |      |           |           |            |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    |           |           |            |      |           |           |            |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         | Poor      | Fair      | Good       | Good | Good      | Good      | Fair       |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             | Fair-Good | Fair-Good | Good       | Good | Fair-Good | Fair      | Poor       |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         |           |           |            |      |           |           |            |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             |           |           |            |      |           |           |            |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             |           |           |            |      |           |           |            |
| VEMA        | <i>Verbena macdougalii</i>                                 | <i>Verbena macdougalii</i>                           |           |           |            |      |           |           |            |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              |           |           |            |      |           |           |            |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> |           |           |            |      |           |           |            |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            |           |           |            |      |           |           |            |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             |           |           |            |      |           |           |            |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     |           |           |            |      |           |           |            |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        |           |           |            |      |           |           |            |
| VEWO2       | <i>Veronica wormskjoldii</i>                               | <i>Veronica wormskjoldii</i>                         |           |           |            |      |           |           |            |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              |           |           |            |      |           |           |            |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>               | <i>Vicia americana</i> var. <i>americana</i>         | Poor-Fair | Fair      | Good       | Good | Good      | Fair      | Poor       |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>linearis</i>          |           |           |            |      |           |           |            |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>             |           |           |            |      |           |           |            |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>           | <i>Vicia exigua</i>                                  |           |           |            |      |           |           |            |

## SOIL CON'T

| USDA Symbol | USDA NRCS PLANTS                                    | Martin and Hutchins (1980)                       | Gravel    | Sand      | Sandy Loam | Loam | Clay Loam | Clay      | Dense Clay |
|-------------|-----------------------------------------------------|--------------------------------------------------|-----------|-----------|------------|------|-----------|-----------|------------|
| VILE3       | <i>Vicia leucophaea</i>                             | <i>Vicia leucophaea</i>                          |           |           |            |      |           |           |            |
| VICO        | <i>Viguiera cordifolia</i>                          | <i>Viguiera cordifolia</i>                       |           |           |            |      |           |           |            |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i> | <i>Viguiera multiflora</i>                       |           |           |            |      |           |           |            |
| VIAD        | <i>Viola adunca</i>                                 | <i>Viola adunca</i>                              | Fair      | Fair      | Good       | Good | Good      | Good      | Poor       |
| VICA4       | <i>Viola canadensis</i>                             | <i>Viola canadensis</i>                          |           |           |            |      |           |           |            |
| VISO        | <i>Viola sororia</i>                                | <i>Viola nephrophylla</i>                        |           |           |            |      |           |           |            |
| VIPE2       | <i>Viola pedatifida</i>                             | <i>Viola pedatifida</i>                          |           |           |            |      |           |           |            |
| VIAR2       | <i>Vitis arizonica</i>                              | <i>Vitis arizonica</i> var. <i>arizonica</i>     | Fair      | Fair      | Good       | Good | Good      | Fair      | Poor       |
| VIVU        | <i>Vitis vulpina</i>                                | <i>Vitis vulpina</i>                             |           |           |            |      |           |           |            |
|             |                                                     | <i>Woodsia mexicana</i>                          |           |           |            |      |           |           |            |
| WOOR        | <i>Woodsia oregana</i>                              | <i>Woodsia oregana</i>                           |           |           |            |      |           |           |            |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i>    | <i>Xanthium strumarium</i> var. <i>canadense</i> | Fair      | Good      | Good       | Good | Good      | Fair      | Poor       |
| YUAN2       | <i>Yucca angustissima</i>                           | <i>Yucca angustissima</i>                        |           |           |            |      |           |           |            |
| YUBA        | <i>Yucca baccata</i>                                | <i>Yucca baccata</i>                             | Fair      | Fair      | Good       | Good | Good      |           | Poor       |
| YUGL        | <i>Yucca glauca</i>                                 | <i>Yucca glauca</i>                              | Fair      | Good      | Good       | Good | Fair      |           | Poor       |
| ZIGR        | <i>Zinnia grandiflora</i>                           | <i>Zinnia grandiflora</i>                        |           |           |            |      |           |           |            |
| ZIEL2       | <i>Zigadenus elegans</i>                            | <i>Zygadenus elegans</i>                         | Poor-Fair | Fair-Good | Good       | Good | Good      | Poor-Fair | Poor       |

### Key for heading acronyms and abbreviations:

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

Gravel = growth on gravel; a soil in which large particles (between 2 mm and 7.62 cm) make up 70% or more of the material by weight.

Sand = growth on sand; a soil in which the sand separates (0.05 to 2 mm) make up 70% or more of the material by weight.

Sandy Loam - growth on sandy loam; a loamy soil that is intermediate in texture between sand and loam.

Loam = growth on loam; a soil that is considered to have an ideal texture for gardening with equal amounts of silt and sand and less than 25% clay.

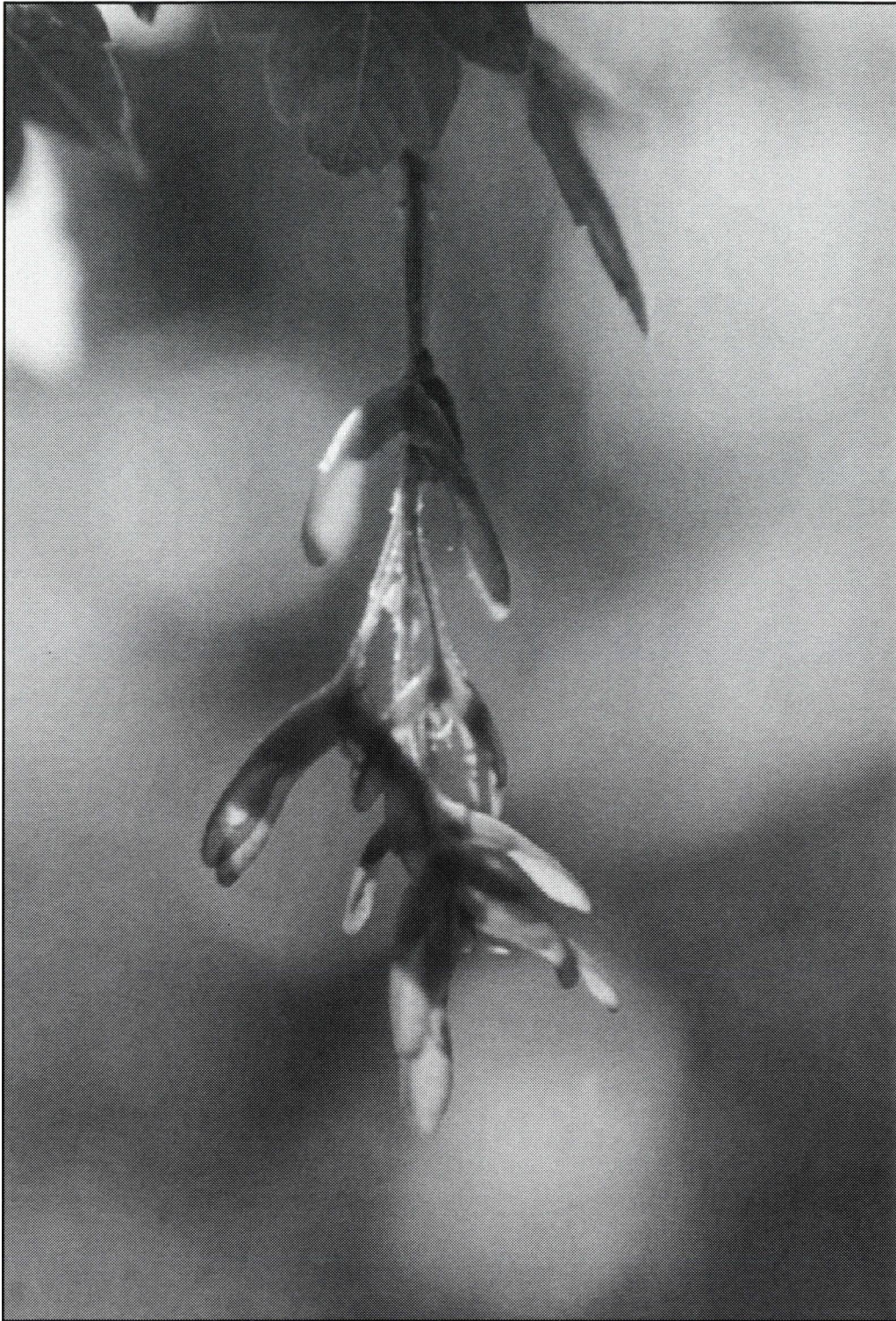
Clay Loam = growth on clay loam; a loamy soil that is intermediate in texture between clay and loam.

Clay = growth on clay; a soil with at least 35% clay separates (less than 0.002 mm) by weight but not more than 50%.

Dense Clay = growth on dense clay; a soil with at least 50% clay separates (less than 0.002 mm) by weight.



WILDLIFE



Boxelder Maple



# WILDLIFE

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|--------------|------------------------------------------------------|-------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           | Good    | Good      |          |           |         |        |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  | Good    | Good      | Good     |           | Good    | Good   |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    |         |           |          |           | Good    | Good   |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        |         |           |          |           | Good    | Good   |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> |         |           |          |           | Good    | Good   |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     |         |           |          |           |         |        |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    |         |           |          |           |         |        |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      |         |           |          |           |         |        |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   |         |           |          |           |         |        |
| AGLL         | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       |         |           |          |           |         |        |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      |         |           |          |           |         |        |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       |         |           |          |           |         |        |
| AGLL         | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |         |           |          |           |         |        |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    |         |           |          |           |         |        |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        |         |           |          |           |         |        |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   |         |           |          |           |         |        |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     |         |           |          |           |         |        |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |         |           |          |           |         |        |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   |         |           |          |           |         |        |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         |         |           |          |           |         |        |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        |         |           |          |           |         |        |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    |         |           |          |           |         |        |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   |         |           |          |           |         |        |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            |         |           |          |           |         |        |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         |         |           |          |           |         |        |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      |         |           |          |           |         |        |
| AGPE         | <i>Agrostis perennans</i>                            | <i>Agrostis perennans</i>                       |         |           |          |           |         |        |
| AGSC5        | <i>Agrostis scabra</i>                               | <i>Agrostis scabra</i>                          |         |           |          |           |         |        |
| POVI9        | <i>Polypogon viridis</i>                             | <i>Agrostis semiverticillata</i>                |         |           |          |           |         |        |
| AGST2        | <i>Agrostis stolonifera</i>                          | <i>Agrostis stolonifera</i>                     |         |           |          |           |         |        |
| AIAL         | <i>Ailanthus altissima</i>                           | <i>Ailanthus altissima</i>                      |         |           |          |           |         |        |
| ALCEO        | <i>Allium cernuum</i> var. <i>obtusum</i>            | <i>Allium cernuum</i> var. <i>obtusum</i>       |         |           |          |           |         |        |
| ALGE         | <i>Allium geyeri</i>                                 | <i>Allium geyeri</i>                            |         |           |          |           |         |        |
| ALMA4        | <i>Allium macropetalum</i>                           | <i>Allium macropetalum</i>                      |         |           |          |           |         |        |
| ALTE         | <i>Allium textile</i>                                | <i>Allium textile</i>                           |         |           |          |           |         |        |
| ALOB2        | <i>Alnus oblongifolia</i>                            | <i>Alnus oblongifolia</i>                       |         |           |          |           |         |        |
| ALINT        | <i>Alnus incana</i> ssp. <i>tenuifolia</i>           | <i>Alnus tenuifolia</i>                         | Fair    | Good      | Fair     |           | Good    | Good   |
| ALAE         | <i>Alopecurus aequalis</i>                           | <i>Alopecurus aequalis</i>                      |         |           |          |           |         |        |

\* A key for heading acronyms and abbreviations is on the last page of this table.

# WILDLIFE CON'T

| USDA Symbol            | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                              | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| ALRO3                  | <i>Alcea rosea</i>                                                                     | <i>Althaea rosea</i>                                    |         |           |          |           |         |        |
| AMAL                   | <i>Amaranthus albus</i>                                                                | <i>Amaranthus albus</i>                                 |         |           |          |           |         |        |
| AMAL;<br>AMBL          | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>                            |         |           |          |           |         |        |
| AMHY                   | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                              |         |           |          |           |         |        |
| AMHY2                  | <i>Amaranthus hypochondriacus</i> L.                                                   | <i>Amaranthus leucocarpus</i>                           |         |           |          |           |         |        |
| AMPA                   | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                               |         |           |          |           |         |        |
| AMPO2                  | <i>Amaranthus powellii</i> S. Wats.                                                    | <i>Amaranthus powellii</i>                              |         |           |          |           |         |        |
| AMRE                   | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>                           |         |           |          |           |         |        |
| AMAR;<br>AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                               |         |           |          |           |         |        |
| AMAR2                  | <i>Ambrosia artemisiifolia</i>                                                         | <i>Ambrosia artemisiifolia</i>                          |         |           |          |           |         |        |
| AMPS                   | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>                            |         |           |          |           |         |        |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier bakeri</i>                               |         |           |          |           |         |        |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier oreophila</i>                            |         |           |          |           |         |        |
| AMPU5                  | <i>Amelanchier pumila</i>                                                              | <i>Amelanchier polycarpa</i>                            |         |           |          |           |         |        |
| AMUT                   | <i>Amelanchier utahensis</i>                                                           | <i>Amelanchier utahensis</i>                            | Fair    | Good      | Good     |           | Good    | Good   |
| AMCA6                  | <i>Amorpha canescens</i>                                                               | <i>Amorpha canescens</i>                                |         |           |          |           |         |        |
| AMFR                   | <i>Amorpha fruticosa</i>                                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i>       |         |           |          |           |         |        |
| AMNA                   | <i>Amorpha nana</i>                                                                    | <i>Amorpha nana</i>                                     |         |           |          |           |         |        |
| ANAR                   | <i>Anagallis arvensis</i>                                                              | <i>Anagallis arvensis</i>                               |         |           |          |           |         |        |
| ANMA                   | <i>Anaphalis margaritacea</i>                                                          | <i>Anaphalis margaritacea</i>                           |         |           |          |           |         |        |
| BOBAB                  | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>                                  | <i>Andropogon barbinodis</i>                            |         |           |          |           |         |        |
| ANGE                   | <i>Andropogon gerardii</i>                                                             | <i>Andropogon gerardii</i>                              |         |           |          |           |         |        |
| ANHA                   | <i>Andropogon hallii</i>                                                               | <i>Andropogon hallii</i>                                |         |           |          |           |         |        |
| BOSA                   | <i>Bothriochloa saccharoides</i>                                                       | <i>Andropogon saccharoides</i>                          |         |           |          |           |         |        |
| SCSCS2                 | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>                                   | <i>Andropogon scoparius</i>                             |         |           |          |           |         |        |
| BOSP3                  | <i>Bothriochloa springfieldii</i>                                                      | <i>Andropogon springfieldii</i>                         |         |           |          |           |         |        |
| BOWR2                  | <i>Bothriochloa wrightii</i>                                                           | <i>Andropogon wrightii</i>                              |         |           |          |           |         |        |
| ANSES4                 | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>                                | <i>Androsace septentrionalis</i> var. <i>subulifera</i> |         |           |          |           |         |        |
| ANCY                   | <i>Anemone cylindrica</i>                                                              | <i>Anemone cylindrica</i>                               |         |           |          |           |         |        |
| ANPI2                  | <i>Angelica pinnata</i>                                                                | <i>Angelica pinnata</i>                                 |         |           |          |           |         |        |
| ANCR2                  | <i>Anoda cristata</i>                                                                  | <i>Anoda cristata</i> var. <i>digitata</i>              |         |           |          |           |         |        |
| ANMA5                  | <i>Antennaria marginata</i>                                                            | <i>Antennaria marginata</i>                             |         |           |          |           |         |        |
| ANPA4                  | <i>Antennaria parvifolia</i>                                                           | <i>Antennaria parvifolia</i>                            |         |           |          |           |         |        |
| ANRO2                  | <i>Antennaria rosea</i>                                                                | <i>Antennaria rosea</i>                                 |         |           |          |           |         |        |
| ANRO3                  | <i>Antennaria rosulata</i>                                                             | <i>Antennaria rosulata</i>                              |         |           |          |           |         |        |
| APRAH                  | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>                                  | <i>Aphanostephus arizonicus</i>                         |         |           |          |           |         |        |

# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> |         |           |          |           |         |        |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            |         |           |          |           |         |        |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            |         |           |          |           |         |        |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     |         |           |          |           |         |        |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   |         |           |          |           |         |        |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   |         |           |          |           |         |        |
| AQTR        | <i>Aquilegia tritemata</i>                                    | <i>Aquilegia tritemata</i>                                    |         |           |          |           |         |        |
| ARDI2       | <i>Arabis X divaricarpa</i>                                   | <i>Arabis divaricarpa</i>                                     |         |           |          |           |         |        |
| ARDR        | <i>Arabis drummondii</i>                                      | <i>Arabis drummondii</i>                                      |         |           |          |           |         |        |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | <i>Arabis fendleri</i> var. <i>fendleri</i>                   |         |           |          |           |         |        |
| ARGL        | <i>Arabis glabra</i>                                          | <i>Arabis glabra</i>                                          |         |           |          |           |         |        |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  | <i>Arabis hirsuta</i> var. <i>pycnocarpa</i>                  |         |           |          |           |         |        |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | <i>Arabis holboellii</i> var. <i>retrofracta</i>              |         |           |          |           |         |        |
| ARPE2       | <i>Arabis perennans</i>                                       | <i>Arabis perennans</i>                                       |         |           |          |           |         |        |
| ARRA        | <i>Aralia racemosa</i>                                        | <i>Aralia racemosa</i>                                        |         |           |          |           |         |        |
| ARDI3       | <i>Arceuthobium divaricatum</i>                               | <i>Arceuthobium divaricatum</i>                               |         |           |          |           |         |        |
| ARDO        | <i>Arceuthobium douglasii</i>                                 | <i>Arceuthobium douglasii</i>                                 |         |           |          |           |         |        |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodium</i>        | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodium</i>      |         |           |          |           |         |        |
| ARPU5       | <i>Arctostaphylos pungens</i>                                 | <i>Arctostaphylos pungens</i>                                 |         |           |          |           |         |        |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                                | <i>Arctostaphylos uva-ursi</i>                                |         |           | Fair     |           | Good    | Good   |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>                 | <i>Arenaria confusa</i>                                       |         |           |          |           |         |        |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               |         |           |          |           |         |        |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 |         |           |          |           |         |        |
| MOMA3       | <i>Moehringia macrophylla</i>                                 | <i>Arenaria macrophylla</i>                                   |         |           |          |           |         |        |
| ARAD        | <i>Aristida adscensionis</i>                                  | <i>Aristida adscensionis</i>                                  |         |           |          |           |         |        |
| ARAR6       | <i>Aristida arizonica</i>                                     | <i>Aristida arizonica</i>                                     |         |           |          |           |         |        |
| ARHA3       | <i>Aristida havardii</i>                                      | <i>Aristida barbata</i>                                       |         |           |          |           |         |        |
| ARDI5       | <i>Aristida divaricata</i>                                    | <i>Aristida divaricata</i>                                    |         |           |          |           |         |        |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>              | <i>Aristida fendleriana</i>                                   |         |           |          |           |         |        |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>                | <i>Aristida longiseta</i>                                     |         |           |          |           |         |        |
| ARPU9       | <i>Aristida purpurea</i>                                      | <i>Aristida purpurea</i>                                      |         |           |          |           |         |        |
| ARBI3       | <i>Artemisia bigelovii</i>                                    | <i>Artemisia bigelovii</i>                                    |         |           |          |           |         |        |
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>              | <i>Artemisia campestris</i> subsp. <i>pacifica</i>            |         |           |          |           |         |        |
| ARCA13      | <i>Artemisia cana</i>                                         | <i>Artemisia cana</i>                                         |         |           | Good     |           | Good    | Good   |
| ARCA14      | <i>Artemisia carruthii</i>                                    | <i>Artemisia carruthii</i>                                    |         |           |          |           |         |        |
| ARDR4       | <i>Artemisia dracunculus</i>                                  | <i>Artemisia dracunculus</i>                                  |         |           |          |           | Poor    | Fair   |
| ARFI2       | <i>Artemisia filifolia</i>                                    | <i>Artemisia filifolia</i>                                    |         |           |          |           |         |        |
| ARFR3       | <i>Artemisia franserioides</i>                                | <i>Artemisia franserioides</i>                                |         |           |          |           |         |        |
| ARFR4       | <i>Artemisia frigida</i>                                      | <i>Artemisia frigida</i>                                      |         |           |          |           |         |        |

# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                                | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|-----------------------------------------------------------|-----------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>           | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>         |         |           |          |           |         |        |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i>      | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i>    |         |           |          |           |         |        |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>         | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>       |         |           |          |           |         |        |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>          | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>       |         |           |          |           |         |        |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>         | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>        |         |           |          |           |         |        |
| ARTR2       | <i>Artemisia tridentata</i>                               | <i>Artemisia tridentata</i>                               |         |           |          |           |         |        |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>            | <i>Asclepias asperula</i> subsp. <i>asperula</i>          |         |           |          |           |         |        |
| ASEN        | <i>Asclepias engelmanniana</i>                            | <i>Asclepias engelmanniana</i>                            |         |           |          |           |         |        |
| ASIN14      | <i>Asclepias involucrata</i>                              | <i>Asclepias involucrata</i>                              |         |           |          |           |         |        |
| ASMA        | <i>Asclepias macrotis</i>                                 | <i>Asclepias macrotis</i>                                 |         |           |          |           |         |        |
| ASSP        | <i>Asclepias speciosa</i>                                 | <i>Asclepias speciosa</i>                                 |         |           |          |           |         |        |
| ASSU2       | <i>Asclepias subverticillata</i>                          | <i>Asclepias subverticillata</i>                          |         |           |          |           |         |        |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>            | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>        |         |           |          |           |         |        |
| ASVI        | <i>Asclepias viridiflora</i>                              | <i>Asclepias viridiflora</i>                              |         |           |          |           |         |        |
| ASOF        | <i>Asparagus officinalis</i>                              | <i>Asparagus officinalis</i>                              |         |           |          |           |         |        |
| ASTR2       | <i>Asplenium trichomanes</i>                              | <i>Asplenium trichomanes</i>                              |         |           |          |           |         |        |
| ASER3       | <i>Aster ericoides</i>                                    | <i>Aster ericoides</i>                                    |         |           |          |           |         |        |
| ASFE        | <i>Aster fendleri</i>                                     | <i>Aster fendleri</i>                                     |         |           |          |           |         |        |
| ASFO        | <i>Aster foliaceus</i>                                    | <i>Aster foliaceus</i>                                    |         |           |          |           |         |        |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>              | <i>Aster glaucodes</i> var. <i>glaucodes</i>              |         |           |          |           |         |        |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>            | <i>Aster hesperius</i>                                    |         |           |          |           |         |        |
| ASLA5       | <i>Aster laevis</i>                                       | <i>Aster laevis</i>                                       |         |           |          |           |         |        |
| ASNO        | <i>Aster novae-angliae</i>                                | <i>Aster novae-angliae</i>                                |         |           |          |           |         |        |
| ASOC        | <i>Aster occidentalis</i>                                 | <i>Aster occidentalis</i>                                 |         |           |          |           |         |        |
| ALPA14      | <i>Almutaster pauciflorus</i>                             | <i>Aster pauciflorus</i>                                  |         |           |          |           |         |        |
| ASPR2       | <i>Aster praealtus</i>                                    | <i>Aster praealtus</i>                                    |         |           |          |           |         |        |
| ASAG2       | <i>Astragalus agrestis</i>                                | <i>Astragalus agrestis</i>                                |         |           |          |           |         |        |
| ASAM5       | <i>Astragalus amphioxys</i>                               | <i>Astragalus amphioxys</i>                               |         |           |          |           |         |        |
| ASBI2       | <i>Astragalus bisulcatus</i>                              | <i>Astragalus bisulcatus</i>                              |         |           |          |           |         |        |
| ASCR2       | <i>Astragalus crassicaupus</i>                            | <i>Astragalus crassicaupus.</i>                           |         |           |          |           |         |        |
| ASEM2       | <i>Astragalus emoryanus</i>                               | <i>Astragalus emoryanus</i>                               |         |           |          |           |         |        |
| ASFL2       | <i>Astragalus flexuosus</i>                               | <i>Astragalus flexuosus</i>                               |         |           |          |           |         |        |
| ASGR3       | <i>Astragalus gracilis</i>                                | <i>Astragalus gracilis</i>                                |         |           |          |           |         |        |
| ASHU2       | <i>Astragalus humistratus</i>                             | <i>Astragalus humistratus</i>                             |         |           |          |           |         |        |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>    | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     |         |           |          |           |         |        |
| ASLE8       | <i>Astragalus lentiginosus</i>                            | <i>Astragalus lentiginosus</i>                            |         |           |          |           |         |        |
| ASLO3       | <i>Astragalus lonchocarpus</i>                            | <i>Astragalus lonchocarpus</i>                            |         |           |          |           |         |        |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> |         |           |          |           |         |        |
| ASMO7       | <i>Astragalus mollissimus</i>                             | <i>Astragalus mollissimus</i>                             |         |           |          |           |         |        |
| ASPR5       | <i>Astragalus praelongus</i>                              | <i>Astragalus praelongus</i>                              |         |           |          |           |         |        |

# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                            | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|-------------------------------------------------------------|-------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| ASSH3       | <i>Astragalus shortianus</i>                                | <i>Astragalus shortianus</i>                          |         |           |          |           |         |        |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>         | <i>Athyrium filix-femina</i> var. <i>californicum</i> |         |           |          |           |         |        |
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                             |         | Poor      | Fair     |           | Fair    | Fair   |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                                |         |           |          |           |         |        |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                                |         |           |          |           |         |        |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                                 |         |           |          |           |         |        |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                              |         |           |          |           |         |        |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                             |         |           |          |           |         |        |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                           |         |           |          |           |         |        |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                            |         |           |          |           |         |        |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                          |         |           |          |           |         |        |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                              |         |           | Poor     |           | Fair    | Poor   |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                                |         |           |          |           |         |        |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                             |         |           |          |           |         |        |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                  |         |           |          |           |         |        |
| BEPL        | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                           |         |           |          |           |         |        |
| BEOC2       | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                            | Poor    | Fair      | Good     |           | Good    | Good   |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                               |         |           |          |           |         |        |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>         |         |           |          |           |         |        |
| BICE        | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                  |         |           |          |           |         |        |
| BITR        | <i>Bidens tripartita</i>                                    | <i>Bidens cosmosa</i>                                 |         |           |          |           |         |        |
| BIFR        | <i>Bidens frondosa</i>                                      | <i>Bidens frondosa</i>                                |         |           |          |           |         |        |
| BLTR        | <i>Blepharoneuron tricholepis</i>                           | <i>Blepharoneuron tricholepis</i>                     |         |           |          |           |         |        |
| BOCO2       | <i>Boerhavia coulteri</i>                                   | <i>Boerhaavia coulteri</i>                            |         |           |          |           |         |        |
| BOMU        | <i>Botrychium multifidum</i>                                | <i>Botrychium multifidum</i> subsp. <i>coulteri</i>   |         |           |          |           |         |        |
| BOAR        | <i>Bouteloua aristidoides</i>                               | <i>Bouteloua aristidoides</i>                         |         |           |          |           |         |        |
| BOBA2       | <i>Bouteloua barbata</i>                                    | <i>Bouteloua barbata</i>                              |         |           |          |           |         |        |
| BOCU        | <i>Bouteloua curtipendula</i>                               | <i>Bouteloua curtipendula</i>                         |         |           |          |           |         |        |
| BOER4       | <i>Bouteloua eriopoda</i>                                   | <i>Bouteloua eriopoda</i>                             |         |           |          |           |         |        |
| BOGR2       | <i>Bouteloua gracilis</i>                                   | <i>Bouteloua gracilis</i>                             |         |           |          |           |         |        |
| BOH12       | <i>Bouteloua hirsuta</i>                                    | <i>Bouteloua hirsuta</i>                              |         |           |          |           |         |        |
| BOS12       | <i>Bouteloua simplex</i>                                    | <i>Bouteloua simplex</i>                              |         |           |          |           |         |        |
| BRJU        | <i>Brassica juncea</i>                                      | <i>Brassica juncea</i>                                |         |           |          |           |         |        |
| BRNI        | <i>Brassica nigra</i>                                       | <i>Brassica nigra</i>                                 |         |           |          |           |         |        |
| BRBE        | <i>Brickellia betonicifolia</i>                             | <i>Brickellia betonicaefolia</i>                      |         |           |          |           |         |        |
| BRBR2       | <i>Brickellia brachyphylla</i>                              | <i>Brickellia brachyphylla</i>                        |         |           |          |           |         |        |
| BRCA3       | <i>Brickellia californica</i>                               | <i>Brickellia californica</i>                         |         |           |          |           |         |        |
| BRFE        | <i>Brickellia fendleri</i>                                  | <i>Brickellia fendleri</i>                            |         |           |          |           |         |        |
| BRGR        | <i>Brickellia grandiflora</i>                               | <i>Brickellia grandiflora</i>                         |         |           |          |           |         |        |
| BRAN        | <i>Bromus anomalus</i>                                      | <i>Bromus anomalus</i>                                |         |           |          |           |         |        |

# WILDLIFE CON'T

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|----------------|--------------------------------|--------------------------------|------------|--------------|-------------|-----------|------------|-----------|
| BRCA6          | <i>Bromus catharticus</i>      | <i>Bromus catharticus</i>      |            |              |             |           |            |           |
| BRCI2          | <i>Bromus ciliatus</i>         | <i>Bromus ciliatus</i>         |            |              |             |           |            |           |
| BRFR2          | <i>Bromus frondosus</i>        | <i>Bromus frondosus</i>        |            |              |             |           |            |           |
| BRIN2          | <i>Bromus inermis</i>          | <i>Bromus inermis</i>          |            |              |             |           | Fair       | Fair      |
| BRJA           | <i>Bromus japonicus</i>        | <i>Bromus japonicus</i>        |            |              |             |           |            |           |
| BRLA6          | <i>Bromus lanatipes</i>        | <i>Bromus lanatipes</i>        |            |              |             |           |            |           |
| BRMA4          | <i>Bromus marginatus</i>       | <i>Bromus marginatus</i>       |            |              |             |           |            |           |
| BRKA2          | <i>Bromus kalmii</i>           | <i>Bromus purgans</i>          |            |              |             |           |            |           |
| BRTE           | <i>Bromus tectorum</i>         | <i>Bromus tectorum</i>         |            |              |             |           |            |           |
| BUDA           | <i>Buchloe dactyloides</i>     | <i>Buchloe dactyloides</i>     |            |              |             |           |            |           |
| CAGU           | <i>Calochortus gunnisonii</i>  | <i>Calochortus gunnisonii</i>  |            |              |             |           |            |           |
| CANU3          | <i>Calochortus nuttallii</i>   | <i>Calochortus nuttallii</i>   |            |              |             |           |            |           |
| CAHA14         | <i>Calylophus hartwegii</i>    | <i>Calylophus hartwegii</i>    |            |              |             |           |            |           |
| CABU           | <i>Calypso bulbosa</i>         | <i>Calypso bulbosa</i>         |            |              |             |           |            |           |
| CAMI2          | <i>Camelina microcarpa</i>     | <i>Camelina microcarpa</i>     |            |              |             |           |            |           |
| CAPA10         | <i>Campanula parryi</i>        | <i>Campanula parryi</i>        |            |              |             |           |            |           |
| CARO2          | <i>Campanula rotundifolia</i>  | <i>Campanula rotundifolia</i>  |            |              |             |           |            |           |
| CABU2          | <i>Capsella bursa-pastoris</i> | <i>Capsella bursa-pastoris</i> |            |              |             |           |            |           |
| CACO6          | <i>Cardamine cordifolia</i>    | <i>Cardamine cordifolia</i>    |            |              |             |           |            |           |
| CADR           | <i>Cardaria draba</i>          | <i>Cardaria draba</i>          |            |              |             |           |            |           |
| CANU4          | <i>Carduus nutans</i>          | <i>Carduus nutans</i>          |            |              |             |           |            |           |
| CAAQ           | <i>Carex aquatilis</i>         | <i>Carex aquatilis</i>         |            |              |             |           |            |           |
| CABE3          | <i>Carex bella</i>             | <i>Carex bella</i>             |            |              |             |           |            |           |
| CABO2          | <i>Carex bolanderi</i>         | <i>Carex bolanderi</i>         |            |              |             |           |            |           |
| CABR10         | <i>Carex brevior</i>           | <i>Carex brevior</i>           |            |              |             |           |            |           |
| CACA11         | <i>Carex canescens</i>         | <i>Carex canescens</i>         |            |              |             |           |            |           |
| CADO2          | <i>Carex douglasii</i>         | <i>Carex douglasii</i>         |            |              |             |           |            |           |
| CADU6          | <i>Carex duriuscula</i>        | <i>Carex eleocharis</i>        |            |              |             |           |            |           |
| CAMI7          | <i>Carex microptera</i>        | <i>Carex festivella</i>        |            |              |             |           |            |           |
| CAFO3          | <i>Carex foenea</i>            | <i>Carex foenea</i>            |            |              |             |           |            |           |
| CAGE           | <i>Carex geophila</i>          | <i>Carex geophila</i>          |            |              |             |           |            |           |
| CAHY4          | <i>Carex hystericina</i>       | <i>Carex hystericina</i>       |            |              |             |           |            |           |
| CAIN11         | <i>Carex interior</i>          | <i>Carex interior</i>          |            |              |             |           |            |           |
| CALA30         | <i>Carex lanuginosa</i>        | <i>Carex lanuginosa</i>        |            |              |             |           |            |           |
| CANE2          | <i>Carex Nebraskensis</i>      | <i>Carex nebraskensis</i>      |            |              |             |           |            |           |
| CAOC2          | <i>Carex occidentalis</i>      | <i>Carex occidentalis</i>      |            |              |             |           |            |           |
| CAPR5          | <i>Carex praegracilis</i>      | <i>Carex praegracilis</i>      |            |              |             |           |            |           |
| CASC11         | <i>Carex scoparia</i>          | <i>Carex scoparia</i>          |            |              |             |           |            |           |
| CAST5          | <i>Carex stipata</i>           | <i>Carex stipata</i>           |            |              |             |           |            |           |
| CAXE           | <i>Carex xerantica</i>         | <i>Carex xerantica</i>         |            |              |             |           |            |           |

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|-------------|-------------------------------------------------------|-----------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>         | <i>Castilleja confusa</i>                                 |         |           |          |           |         |        |
| CAIN14      | <i>Castilleja integra</i>                             | <i>Castilleja integra</i>                                 |         |           |          |           |         |        |
| CALI4       | <i>Castilleja linariifolia</i>                        | <i>Castilleja linariaefolia</i>                           |         |           |          |           |         |        |
| CALI5       | <i>Castilleja lineata</i>                             | <i>Castilleja lineata</i>                                 |         |           |          |           |         |        |
| CAMI12      | <i>Castilleja miniata</i>                             | <i>Castilleja miniata</i>                                 |         |           |          |           |         |        |
| CAMI13      | <i>Castilleja minor</i>                               | <i>Castilleja minor</i>                                   |         |           |          |           |         |        |
| CARH4       | <i>Castilleja rhexiifolia</i>                         | <i>Castilleja rhexifolia</i>                              |         |           |          |           |         |        |
| CEFE        | <i>Ceanothus fendleri</i>                             | <i>Ceanothus fendleri</i>                                 |         |           | Poor     |           | Fair    | Fair   |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>        | <i>Celtis reticulata</i>                                  |         |           |          |           |         |        |
| CEEC        | <i>Cenchrus echinatus</i>                             | <i>Cenchrus echinatus</i>                                 |         |           |          |           |         |        |
| CEIN4       | <i>Cenchrus incertus</i>                              | <i>Cenchrus pauciflorus</i>                               |         |           |          |           |         |        |
| CECA3       | <i>Centaurium calycosum</i>                           | <i>Centaurium calycosum</i>                               |         |           |          |           |         |        |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                                  |         |           |          |           |         |        |
| CEBR3       | <i>Cerastium brachypodium</i>                         | <i>Cerastium brachypodium</i>                             |         |           |          |           |         |        |
| CEFOV2      | <i>Cerastium fontanus</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                                 |         |           |          |           |         |        |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>          |         |           |          |           | Good    | Good   |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i>     |         |           |          |           |         |        |
| CHCO        | <i>Chamaesaracha coniodes</i>                         | <i>Chamaesaracha coniodes</i>                             |         |           |          |           |         |        |
| CHCO2       | <i>Chamaesaracha coronopus</i>                        | <i>Chamaesaracha coronopus</i>                            |         |           |          |           |         |        |
| CHFE        | <i>Cheilanthes feei</i>                               | <i>Cheilanthes feei</i>                                   |         |           |          |           |         |        |
| CHFE2       | <i>Cheilanthes fendleri</i>                           | <i>Cheilanthes fendleri</i>                               |         |           |          |           |         |        |
| CHTO2       | <i>Cheilanthes tomentosa</i>                          | <i>Cheilanthes tomentosa</i>                              |         |           |          |           |         |        |
| CHEA        | <i>Cheilanthes eatonii</i>                            | <i>Cheilanthes eatonii</i>                                |         |           |          |           |         |        |
| CHAL6       | <i>Chenopodium albescens</i>                          | <i>Chenopodium albescens</i>                              |         |           |          |           |         |        |
| CHAL7       | <i>Chenopodium album</i>                              | <i>Chenopodium album</i>                                  |         |           |          |           |         |        |
| CHBE4       | <i>Chenopodium berlandieri</i>                        | <i>Chenopodium berlandieri</i>                            |         |           |          |           |         |        |
| CHCA4       | <i>Chenopodium capitatum</i>                          | <i>Chenopodium capitatum</i>                              |         |           |          |           |         |        |
| CHCY        | <i>Chenopodium cycloides</i>                          | <i>Chenopodium cycloides</i>                              |         |           |          |           |         |        |
| CHDE        | <i>Chenopodium desiccatum</i>                         | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>      |         |           |          |           |         |        |
| CHPR5       | <i>Chenopodium pratericola</i>                        | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i> |         |           |          |           |         |        |
| CHFR3       | <i>Chenopodium fremontii</i>                          | <i>Chenopodium fremontii</i>                              |         |           |          |           |         |        |
| CHSI2       | <i>Chenopodium simplex</i>                            | <i>Chenopodium gigantospermum</i>                         |         |           |          |           |         |        |
| CHGL3       | <i>Chenopodium glaucum</i>                            | <i>Chenopodium glaucum</i>                                |         |           |          |           |         |        |
| CHGR2       | <i>Chenopodium graveolens</i>                         | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>    |         |           |          |           |         |        |
| CHIN2       | <i>Chenopodium incanum</i>                            | <i>Chenopodium incanum</i>                                |         |           |          |           |         |        |
| CHLE4       | <i>Chenopodium leptophyllum</i>                       | <i>Chenopodium leptophyllum</i>                           |         |           |          |           |         |        |
| CHRU        | <i>Chenopodium rubrum</i>                             | <i>Chenopodium rubrum</i>                                 |         |           |          |           |         |        |
| CHWA        | <i>Chenopodium watsonii</i>                           | <i>Chenopodium watsonii</i>                               |         |           |          |           |         |        |
| CHUM        | <i>Chimaphila umbellata</i>                           | <i>Chimaphila umbellata</i>                               |         |           |          |           |         |        |
| CHVI4       | <i>Chloris virgata</i>                                | <i>Chloris virgata</i>                                    |         |           |          |           |         |        |



# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                                     | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      |         |           |          |           |         |        |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         |         |           |          |           |         |        |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      |         |           |          |           |         |        |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           |         |           |          |           |         |        |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             |         |           |          |           |         |        |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> |         |           |          |           |         |        |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        |         |           |          |           |         |        |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          |         |           |          |           |         |        |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    |         |           |          |           |         |        |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                                            | <i>Cirsium ochrocentrum</i>                                    |         |           |          |           |         |        |
| CIPA5       | <i>Cirsium pallidum</i>                                                                | <i>Cirsium pallidum</i>                                        |         |           |          |           |         |        |
| CIPA        | <i>Cirsium parryi</i>                                                                  | <i>Cirsium parryi</i>                                          |         |           |          |           |         |        |
| CICA10      | <i>Cirsium calcareum</i>                                                               | <i>Cirsium pulchellum</i>                                      |         |           |          |           |         |        |
| CIUN        | <i>Cirsium undulatum</i>                                                               | <i>Cirsium undulatum</i>                                       |         |           |          |           |         |        |
| CIVU        | <i>Cirsium vulgare</i>                                                                 | <i>Cirsium vulgare</i>                                         |         |           |          |           |         |        |
| CLDR        | <i>Clematis drummondii</i>                                                             | <i>Clematis drummondii</i>                                     |         |           |          |           |         |        |
| CLLI2       | <i>Clematis ligusticifolia</i>                                                         | <i>Clematis ligusticifolia</i>                                 |         |           |          |           |         |        |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i>                                      | <i>Clematis pseudoalpina</i>                                   |         |           |          |           |         |        |
| CLSE        | <i>Cleome serrulata</i>                                                                | <i>Cleome serrulata</i>                                        |         |           |          |           | Poor    | Fair   |
| CLVU        | <i>Clinopodium vulgare</i>                                                             | <i>Clinopodium vulgare</i>                                     |         |           |          |           |         |        |
| COLI2       | <i>Collomia linearis</i>                                                               | <i>Collomia linearis</i>                                       |         |           |          |           |         |        |
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>                                          | <i>Comandra pallida</i>                                        |         |           |          |           |         |        |
| CODI4       | <i>Commelina dianthifolia</i>                                                          | <i>Commelina dianthifolia</i>                                  |         |           |          |           |         |        |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>                                          | <i>Conopholis mexicana</i>                                     |         |           |          |           |         |        |
| COAR4       | <i>Convolvulus arvensis</i>                                                            | <i>Convolvulus arvensis</i>                                    |         |           |          |           |         |        |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>                                            | <i>Convolvulus sepium</i>                                      |         |           |          |           |         |        |
| COCA5       | <i>Conyza canadensis</i>                                                               | <i>Conyza canadensis</i>                                       |         |           |          |           |         |        |
| COMA4       | <i>Corallorrhiza maculata</i>                                                          | <i>Corallorrhiza maculata</i>                                  |         |           |          |           |         |        |
| COST        | <i>Corallorrhiza striata</i>                                                           | <i>Corallorrhiza striata</i>                                   |         |           |          |           |         |        |
| COWR2       | <i>Cordylanthus wrightii</i>                                                           | <i>Cordylanthus wrightii</i>                                   |         |           |          |           |         |        |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i>                                       | <i>Coreopsis cardaminefolia</i>                                |         |           |          |           |         |        |
| COTI3       | <i>Coreopsis tinctoria</i>                                                             | <i>Coreopsis tinctoria</i>                                     |         |           |          |           |         |        |
| COSA        | <i>Coriandrum sativum</i>                                                              | <i>Coriandrum sativum</i>                                      |         |           |          |           |         |        |
| COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i>                                              | <i>Cornus stolonifera</i>                                      |         |           |          |           | Fair    | Fair   |
| COAU2       | <i>Corydalis aurea</i>                                                                 | <i>Corydalis aurea</i>                                         |         |           |          |           |         |        |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>                                         | <i>Coryphantha vivipara</i>                                    |         |           |          |           |         |        |
| COPA12      | <i>Cosmos parviflorus</i>                                                              | <i>Cosmos parviflorus</i>                                      |         |           |          |           |         |        |

# WILDLIFE CON'T

| USDA<br>Symbol | USDA NRCS PLANTS                               | Martin and Hutchins (1980)                            | Elk<br>Cov | Mule<br>Deer | Upl<br>Game | Waterfowl | Sm<br>NonG | Sm<br>Mam |
|----------------|------------------------------------------------|-------------------------------------------------------|------------|--------------|-------------|-----------|------------|-----------|
| CRER           | <i>Crataegus erythropoda</i>                   | <i>Crataegus erythropoda</i>                          |            |              |             |           |            |           |
| CRTE4          | <i>Croton texensis</i>                         | <i>Croton texensis</i>                                |            |              |             |           |            |           |
| CRFE3          | <i>Cryptantha fendleri</i>                     | <i>Cryptantha fendleri</i>                            |            |              |             |           |            |           |
| CRCIJ          | <i>Cryptantha cinerea</i> var. <i>jamesii</i>  | <i>Cryptantha jamesii</i>                             |            |              |             |           |            |           |
| CRM15          | <i>Cryptantha minima</i>                       | <i>Cryptantha minima</i>                              |            |              |             |           |            |           |
| CRAC3          | <i>Cryptogramma acrostichoides</i>             | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> |            |              |             |           |            |           |
| CUFO           | <i>Cucurbita foetidissima</i>                  | <i>Cucurbita foetidissima</i>                         |            |              |             |           |            |           |
| CUPEP2         | <i>Cuscuta pentagona</i> var. <i>pentagona</i> | <i>Cuscuta campestris</i>                             |            |              |             |           |            |           |
| CUUM           | <i>Cuscuta umbellata</i>                       | <i>Cuscuta umbellata</i>                              |            |              |             |           |            |           |
| CYBU           | <i>Cymopterus bulbosus</i>                     | <i>Cymopterus bulbosus</i>                            |            |              |             |           |            |           |
| CYDA           | <i>Cynodon dactylon</i>                        | <i>Cynodon dactylon</i>                               |            |              |             |           |            |           |
| CYEC           | <i>Cynosurus echinatus</i>                     | <i>Cynosurus echinatus</i>                            |            |              |             |           |            |           |
| CYSQ           | <i>Cyperus squarrosus</i>                      | <i>Cyperus aristatus</i>                              |            |              |             |           |            |           |
| MISE3          | <i>Mitreola sessilifolia</i>                   | <i>Cyperus esculentus</i>                             |            |              |             |           |            |           |
| CYFE2          | <i>Cyperus fendlerianus</i>                    | <i>Cyperus fendlerianus</i>                           |            |              |             |           |            |           |
| CYB16          | <i>Cyperus bipartitus</i>                      | <i>Cyperus rivularis</i>                              |            |              |             |           |            |           |
| CYPU10         | <i>Cypripedium pubescens</i>                   | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    |            |              |             |           |            |           |
| CYFR2          | <i>Cystopteris fragilis</i>                    | <i>Cystopteris fragilis</i>                           |            |              |             |           |            |           |
| DAGL           | <i>Dactylis glomerata</i>                      | <i>Dactylis glomerata</i>                             |            |              |             |           |            |           |
| DABR           | <i>Dalea brachystachya</i>                     | <i>Dalea brachystachys</i>                            |            |              |             |           |            |           |
| DAFO           | <i>Dalea formosa</i>                           | <i>Dalea formosa</i>                                  |            |              |             |           |            |           |
| DALE3          | <i>Dalea leporina</i>                          | <i>Dalea leporina</i>                                 |            |              |             |           |            |           |
| DANA           | <i>Dalea nana</i>                              | <i>Dalea nana</i>                                     |            |              |             |           |            |           |
| DAPO3          | <i>Dalea polygonoides</i>                      | <i>Dalea polygonoides</i>                             |            |              |             |           |            |           |
| DALAT          | <i>Dalea lanata</i> var. <i>terminalis</i>     | <i>Dalea terminalis</i>                               |            |              |             |           |            |           |
| DAIN           | <i>Danthonia intermedia</i>                    | <i>Danthonia intermedia</i>                           |            |              |             |           |            |           |
| DAPA2          | <i>Danthonia parryi</i>                        | <i>Danthonia parryi</i>                               |            |              |             |           |            |           |
| DASP2          | <i>Danthonia spicata</i>                       | <i>Danthonia spicata</i>                              |            |              |             |           |            |           |
| DAWR2          | <i>Datura wrightii</i>                         | <i>Datura meteloides</i>                              |            |              |             |           |            |           |
| DEOC           | <i>Delphinium X occidentale</i>                | <i>Delphinium occidentale</i>                         |            |              |             |           |            |           |
| DEWO           | <i>Delphinium wootonii</i>                     | <i>Delphinium virescens</i> subsp. <i>wootonii</i>    |            |              |             |           |            |           |
| DECE           | <i>Deschampsia cespitosa</i>                   | <i>Deschampsia caespitosa</i>                         |            |              |             |           |            |           |
| DEOBO          | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>   | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>        |            |              |             |           |            |           |
| DEPI           | <i>Descurainia pinnata</i>                     | <i>Descurainia pinnata</i>                            |            |              |             |           |            |           |
| DEINI          | <i>Descurainia incana</i> ssp. <i>incana</i>   | <i>Descurainia richardsonii</i>                       |            |              |             |           |            |           |
| DEINI2         | <i>Descurainia incana</i> ssp. <i>incisa</i>   | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>  |            |              |             |           |            |           |
| DEINP          | <i>Descurainia incana</i> ssp. <i>procera</i>  | <i>Descurainia richardsonii</i> subsp. <i>procera</i> |            |              |             |           |            |           |
| DESO2          | <i>Descurainia sophia</i>                      | <i>Descurainia sophia</i>                             |            |              |             |           |            |           |
| DEINV          | <i>Descurainia incana</i> ssp. <i>viscosa</i>  | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i> |            |              |             |           |            |           |
| DISP           | <i>Distichlis spicata</i>                      | <i>Distichlis spicata</i>                             |            |              |             |           |            |           |

# WILDLIFE CON'T

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis stricta</i>                                       |         |           |          |           |         |        |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                                  | <i>Dithyrea wislizenii</i>                                      |         |           |          |           |         |        |
| DOAL        | <i>Dodecatheon alpinum</i>                                      | <i>Dodecatheon alpinum</i>                                      |         |           |          |           |         |        |
| DOPU        | <i>Dodecatheon pulchellum</i>                                   | <i>Dodecatheon pulchellum</i>                                   |         |           |          |           |         |        |
| DRAU        | <i>Draba aurea</i>                                              | <i>Draba aurea</i> var. <i>aurea</i>                            |         |           |          |           |         |        |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>                  | <i>Draba helleriana</i> var. <i>helleriana</i>                  |         |           |          |           |         |        |
| DRRE        | <i>Draba rectifruta</i>                                         | <i>Draba rectifruta</i>                                         |         |           |          |           |         |        |
| DRRE2       | <i>Draba reptans</i>                                            | <i>Draba reptans</i>                                            |         |           |          |           |         |        |
| DRSP        | <i>Draba spectabilis</i>                                        | <i>Draba spectabilis</i>                                        |         |           |          |           |         |        |
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     |         |           |          |           |         |        |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         |         |           |          |           |         |        |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        |         |           |          |           |         |        |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    |         |           |          |           |         |        |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> |         |           |          |           |         |        |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   |         |           |          |           |         |        |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       |         |           |          |           |         |        |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    |         |           |          |           |         |        |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   |         |           |          |           | Good    | Good   |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  |         |           |          |           |         |        |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        |         |           |          |           |         |        |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           |         |           |          |           |         |        |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        |         |           |          |           |         |        |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        |         |           |          |           |         |        |
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>                      | <i>Ephedra viridis</i> var. <i>viridis</i>                      |         |           |          |           |         |        |
| EPAN2       | <i>Epilobium angustifolium</i>                                  | <i>Epilobium angustifolium</i>                                  |         |           |          |           |         |        |
| EPCI        | <i>Epilobium ciliatum</i>                                       | <i>Epilobium ciliatum</i>                                       |         |           |          |           |         |        |
| EPOR2       | <i>Epilobium oregonense</i>                                     | <i>Epilobium oregonense</i>                                     |         |           |          |           |         |        |
| EPBR3       | <i>Epilobium brachycarpum</i>                                   | <i>Epilobium paniculatum</i>                                    |         |           |          |           |         |        |
| EPGI        | <i>Epipactis gigantea</i>                                       | <i>Epipactis gigantea</i>                                       |         |           |          |           |         |        |
| EQAR        | <i>Equisetum arvense</i>                                        | <i>Equisetum arvense</i>                                        |         |           |          |           |         |        |
| EQHY        | <i>Equisetum hyemale</i>                                        | <i>Equisetum hiemale</i>                                        |         |           |          |           |         |        |
| EQLA        | <i>Equisetum laevigatum</i>                                     | <i>Equisetum laevigatum</i>                                     |         |           |          |           |         |        |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserima</i>               | <i>Eragrostis arida</i>                                         |         |           |          |           |         |        |
| ERBA2       | <i>Eragrostis barrelieri</i>                                    | <i>Eragrostis barrelieri</i>                                    |         |           |          |           |         |        |
| ERCI        | <i>Eragrostis cilianensis</i>                                   | <i>Eragrostis cilianensis</i>                                   |         |           |          |           |         |        |
| ERCU2       | <i>Eragrostis curvula</i>                                       | <i>Eragrostis curvula</i>                                       |         |           |          |           |         |        |
| ERHY        | <i>Eragrostis hypnoides</i>                                     | <i>Eragrostis hypnoides</i>                                     |         |           |          |           |         |        |
| ERPE        | <i>Eragrostis pectinacea</i>                                    | <i>Eragrostis pectinacea</i>                                    |         |           |          |           |         |        |
| ERTR3       | <i>Eragrostis trichodes</i>                                     | <i>Eragrostis trichodes</i>                                     |         |           |          |           |         |        |

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| USDA<br>Symbol | USDA NRCS PLANTS                                        | Martin and Hutchins (1980)                              | Elk<br>Cov | Mule<br>Deer | Upl<br>Game | Waterfowl | Sm<br>NonG | Sm<br>Mam |
|----------------|---------------------------------------------------------|---------------------------------------------------------|------------|--------------|-------------|-----------|------------|-----------|
| ERCA4          | <i>Erigeron canus</i>                                   | <i>Erigeron canus</i>                                   |            |              |             |           |            |           |
| ERDI4          | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               |            |              |             |           |            |           |
| EREL9          | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 |            |              |             |           |            |           |
| ERFL           | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             |            |              |             |           |            |           |
| ERFOF2         | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> |            |              |             |           |            |           |
| ERFOV          | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      |            |              |             |           |            |           |
| ERFL           | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              |            |              |             |           |            |           |
| ERPEC          | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  |            |              |             |           |            |           |
| ERPH           | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          |            |              |             |           |            |           |
| ERVR           | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            |            |              |             |           |            |           |
| ERCOC3         | <i>Erigeron concinnus</i> var. <i>concinnus</i>         | <i>Erigeron pumilus</i> subsp. <i>concinoides</i>       |            |              |             |           |            |           |
| ERRH2          | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              |            |              |             |           |            |           |
| ERSI3          | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 |            |              |             |           |            |           |
| ERSPM          | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        |            |              |             |           |            |           |
| ERSU2          | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            |            |              |             |           |            |           |
| EREX4          | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                |            |              |             |           |            |           |
| ERUT           | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               |            |              |             |           |            |           |
| ERVE2          | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                |            |              |             |           |            |           |
| ERACA          | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               |            |              |             |           |            |           |
| ERAB2          | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             |            |              |             |           |            |           |
| ERAL4          | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 |            |              |             |           |            |           |
| ERAN4          | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 |            |              |             |           |            |           |
| ERCE2          | <i>Eriogonum cernuum</i>                                | <i>Eriogonum cernuum</i>                                |            |              |             |           |            |           |
| EREF           | <i>Eriogonum effusum</i>                                | <i>Eriogonum effusum</i>                                |            |              |             |           |            |           |
| ERJA           | <i>Eriogonum jamesii</i>                                | <i>Eriogonum jamesii</i>                                |            |              |             |           |            |           |
| ERLE9          | <i>Eriogonum leptocladon</i>                            | <i>Eriogonum leptocladon</i>                            |            |              |             |           |            |           |
| ERPO4          | <i>Eriogonum polycladon</i>                             | <i>Eriogonum polycladon</i>                             |            |              |             |           |            |           |
| ERRA3          | <i>Eriogonum racemosum</i>                              | <i>Eriogonum racemosum</i>                              |            |              |             |           |            |           |
| ERIC6          | <i>Erodium cicutarium</i>                               | <i>Erodium cicutarium</i>                               |            |              |             |           |            |           |
| ERCAC          | <i>Erysimum capitatum</i> var. <i>capitatum</i>         | <i>Erysimum asperum</i>                                 |            |              |             |           |            |           |
| ERCA14         | <i>Erysimum capitatum</i>                               | <i>Erysimum capitatum</i>                               |            |              |             |           |            |           |
| ERIN7          | <i>Erysimum inconspicuum</i>                            | <i>Erysimum inconspicuum</i>                            |            |              |             |           |            |           |
| ERHE7          | <i>Erythronium hendersonii</i>                          | <i>Eupatorium herbaceum</i>                             |            |              |             |           |            |           |
| CHAL11         | <i>Chamaesyce albomarginata</i>                         | <i>Euphorbia albomarginata</i>                          |            |              |             |           |            |           |
| EUDE4          | <i>Euphorbia dentata</i>                                | <i>Euphorbia dentata</i>                                |            |              |             |           |            |           |
| EUDE4          | <i>Euphorbia dentata</i>                                | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>        |            |              |             |           |            |           |
| EUEX4          | <i>Euphorbia exstipulata</i>                            | <i>Euphorbia exstipulata</i>                            |            |              |             |           |            |           |
| CHFE3          | <i>Chamaesyce fendleri</i>                              | <i>Euphorbia fendleri</i> var. <i>fendleri</i>          |            |              |             |           |            |           |
| CHGEG          | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>             | <i>Euphorbia geyeri</i>                                 |            |              |             |           |            |           |
| EULU           | <i>Euphorbia lurida</i>                                 | <i>Euphorbia lurida</i>                                 |            |              |             |           |            |           |

# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                        | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|-----------------------------------------------------------|---------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> |         |           |          |           |         |        |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      |         |           |          |           |         |        |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         |         |           |          |           |         |        |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          |         |           |          |           |         |        |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    |         |           |          |           |         |        |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             |         |           |          |           |         |        |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                          |         |           |          |           |         |        |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                          |         |           |          |           |         |        |
| FERUR       | <i>Fendleri rupicola</i> var. <i>rupicola</i>             | <i>Fendleri rupicola</i> var. <i>rupicola</i>     |         |           |          |           |         |        |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                          |         |           |          |           |         |        |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                            |         |           |          |           |         |        |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                          |         |           |          |           |         |        |
| FEOV        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                              |         |           |          |           |         |        |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                            |         |           |          |           |         |        |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                           |         |           |          |           |         |        |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                     |         |           |          |           |         |        |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>               | <i>Fragaria americana</i>                         |         |           |          |           |         |        |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>         | <i>Fragaria ovalis</i>                            |         |           |          |           |         |        |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                        | <i>Franseria acanthicarpa</i>                     |         |           |          |           |         |        |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                         | <i>Franseria confertiflora</i>                    |         |           |          |           |         |        |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                       | <i>Gaillardia pinnatifida</i>                     |         |           |          |           |         |        |
| GAAP2       | <i>Galium aparine</i> L.                                  | <i>Galium aparine</i>                             |         |           |          |           |         |        |
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>aspermum</i>              | <i>Galium aspermum</i>                            |         |           |          |           |         |        |
| GABO2       | <i>Galium boreale</i>                                     | <i>Galium boreale</i>                             |         |           |          |           |         |        |
| GAFE        | <i>Galium fendleri</i>                                    | <i>Galium fendleri</i>                            |         |           |          |           |         |        |
| GAMI        | <i>Galium microphyllum</i>                                | <i>Galium microphyllum</i>                        |         |           |          |           |         |        |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>            | <i>Galium tinctorum</i> var. <i>subbiflorum</i>   |         |           |          |           |         |        |
| GACO5       | <i>Gaura coccinea</i>                                     | <i>Gaura coccinea</i>                             |         |           |          |           |         |        |
| GAPA6       | <i>Gaura parviflora</i>                                   | <i>Gaura parviflora</i>                           |         |           |          |           |         |        |
| GEAF        | <i>Gentiana affinis</i>                                   | <i>Gentiana affinis</i>                           |         |           |          |           |         |        |
| GEAF        | <i>Gentiana affinis</i>                                   | <i>Gentiana bigelovii</i>                         |         |           |          |           |         |        |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>             | <i>Gentiana plebeia</i>                           |         |           |          |           |         |        |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>             | <i>Gentiana strictiflora</i>                      |         |           |          |           |         |        |
| GECA3       | <i>Geranium caespitosum</i>                               | <i>Geranium caespitosum</i>                       |         |           |          |           |         |        |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i>         | <i>Geranium fremontii</i>                         |         |           |          |           |         |        |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>            | <i>Geranium fremontii</i> var. <i>parryi</i>      |         |           |          |           |         |        |
| GERI        | <i>Geranium richardsonii</i>                              | <i>Geranium richardsonii</i>                      |         |           |          |           |         |        |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>           | <i>Geum macrophyllum</i> var. <i>perincisum</i>   |         |           |          |           |         |        |
| GERI2       | <i>Geum rivale</i>                                        | <i>Geum rivale</i>                                |         |           |          |           |         |        |
| GEAL3       | <i>Geum aleppicum</i>                                     | <i>Geum strictum</i> var. <i>strictum</i>         |         |           |          |           |         |        |

# WILDLIFE CON'T

| USDA<br>Symbol | USDA NRCS PLANTS                                                                  | Martin and Hutchins (1980)                             | Elk<br>Cov | Mule<br>Deer | Upl<br>Game | Waterfowl | Sm<br>NonG | Sm<br>Mam |
|----------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|------------|--------------|-------------|-----------|------------|-----------|
| GETRC2         | <i>Geum triflorum</i> var. <i>ciliatum</i>                                        | <i>Geum triflorum</i> var. <i>ciliatum</i>             |            |              |             |           |            |           |
| GIFLA          | <i>Gilia flavocincta</i> ssp. <i>australis</i>                                    | <i>Gilia flavocincta</i> subsp. <i>australis</i>       |            |              |             |           |            |           |
| GILE3          | <i>Gilia leptomeria</i>                                                           | <i>Gilia leptomeria</i>                                |            |              |             |           |            |           |
| GIPI           | <i>Gilia pinnatifida</i>                                                          | <i>Gilia pinnatifida</i>                               |            |              |             |           |            |           |
| GLBO           | <i>Glyceria borealis</i>                                                          | <i>Glyceria borealis</i>                               |            |              |             |           |            |           |
| GLGR           | <i>Glyceria grandis</i>                                                           | <i>Glyceria grandis</i>                                |            |              |             |           |            |           |
| GLST           | <i>Glyceria striata</i>                                                           | <i>Glyceria striata</i>                                |            |              |             |           |            |           |
| GLLE3          | <i>Glycyrrhiza lepidota</i>                                                       | <i>Glycyrrhiza lepidota</i>                            |            |              |             |           |            |           |
| PSST7          | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             |            |              |             |           |            |           |
| PSST7          | <i>Pseudognaphalium stramineum</i>                                                | <i>Gnaphalium chilense</i>                             |            |              |             |           |            |           |
| GNEX           | <i>Gnaphalium exillifolium</i>                                                    | <i>Gnaphalium grayi</i>                                |            |              |             |           |            |           |
| PSMA11         | <i>Pseudognaphalium macounii</i>                                                  | <i>Gnaphalium macounii</i>                             |            |              |             |           |            |           |
| GNPA           | <i>Gnaphalium palustre</i>                                                        | <i>Gnaphalium palustre</i>                             |            |              |             |           |            |           |
| PSCAC2         | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i>                           | <i>Gnaphalium wrightii</i>                             |            |              |             |           |            |           |
| GOOB2          | <i>Goodyera oblongifolia</i>                                                      | <i>Goodyera oblongifolia</i>                           |            |              |             |           |            |           |
| GORE2          | <i>Goodyera repens</i>                                                            | <i>Goodyera repens</i>                                 |            |              |             |           |            |           |
| GRNUA          | <i>Grindelia nuda</i> var. <i>aphanactis</i>                                      | <i>Grindelia aphanactis</i>                            |            |              |             |           |            |           |
| GRFA           | <i>Grindelia fastigiata</i>                                                       | <i>Grindelia fastigiata</i>                            |            |              |             |           |            |           |
| GRSQ           | <i>Grindelia squarrosa</i>                                                        | <i>Grindelia squarrosa</i>                             |            |              |             |           |            |           |
| GUMI           | <i>Gutierrezia microcephala</i>                                                   | <i>Gutierrezia microcephala</i>                        |            |              |             |           |            |           |
| GUSA2          | <i>Gutierrezia sarothrae</i>                                                      | <i>Gutierrezia sarothrae</i>                           |            |              |             |           |            |           |
| PLHYH2         | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>                              | <i>Habenaria hyperborea</i>                            |            |              |             |           |            |           |
| PLSPS          | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>                            | <i>Habenaria sparsiflora</i>                           |            |              |             |           |            |           |
| HAFL2          | <i>Hackelia floribunda</i>                                                        | <i>Hackelia floribunda</i>                             |            |              |             |           |            |           |
| HABE3          | <i>Hackelia besseyi</i>                                                           | <i>Hackelia grisea</i>                                 |            |              |             |           |            |           |
| HAPI2          | <i>Hackelia pinetorum</i>                                                         | <i>Hackelia pinetorum</i>                              |            |              |             |           |            |           |
| PYCRC          | <i>Pyrocoma crocea</i> var. <i>crocea</i>                                         | <i>Haplopappus croceus</i>                             |            |              |             |           |            |           |
| MAGR10         | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                            |            |              |             |           |            |           |
| MAGRG          | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                           |            |              |             |           |            |           |
| SOPA4          | <i>Solidago parryi</i>                                                            | <i>Haplopappus parryi</i>                              |            |              |             |           |            |           |
| MAPIP4         | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i> |            |              |             |           |            |           |
| HEDR           | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                              |            |              |             |           |            |           |
| HENA           | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                    |            |              |             |           |            |           |
| HEOB           | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                            |            |              |             |           |            |           |
| HEPU12         | <i>Hedeoma pulcherrima</i>                                                        | <i>Hedeoma pulcherrima</i>                             |            |              |             |           |            |           |
| HEAUM          | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>         |            |              |             |           |            |           |
| HYHO           | <i>Hymenoxys hoopesii</i>                                                         | <i>Helenium hoopesii</i>                               |            |              |             |           |            |           |

# WILDLIFE CON'T

| USDA<br>Symbol | USDA NRCS PLANTS                                         | Martin and Hutchins (1980)                                 | Elk<br>Cov | Mule<br>Deer | Upl<br>Game | Waterfowl | Sm<br>NonG | Sm<br>Mam |
|----------------|----------------------------------------------------------|------------------------------------------------------------|------------|--------------|-------------|-----------|------------|-----------|
| HEQU2          | <i>Helianthella quinquenervis</i>                        | <i>Helianthella quinquenervis</i>                          |            |              |             |           |            |           |
| HEAN3          | <i>Helianthus annuus</i>                                 | <i>Helianthus annuus</i>                                   |            |              |             |           |            |           |
| HEAR8          | <i>Helianthus arizonensis</i>                            | <i>Helianthus arizonensis</i>                              |            |              |             |           |            |           |
| HEPE           | <i>Helianthus petiolaris</i>                             | <i>Helianthus petiolaris</i>                               |            |              |             |           |            |           |
| HEPAS          | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i> | <i>Helianthus rigidus</i> subsp. <i>subrhomboideus</i>     |            |              |             |           |            |           |
| HEMA80         | <i>Heracleum maximum</i>                                 | <i>Heracleum lanatum</i>                                   |            |              |             |           |            |           |
| HEPA11         | <i>Heuchera parvifolia</i>                               | <i>Heuchera parvifolia</i>                                 |            |              |             |           |            |           |
| HICA4          | <i>Hieracium cameum</i>                                  | <i>Hieracium cameum</i>                                    |            |              |             |           |            |           |
| HIFE           | <i>Hieracium fendleri</i>                                | <i>Hieracium fendleri</i>                                  |            |              |             |           |            |           |
| HIOD           | <i>Hierochloe odorata</i>                                | <i>Hierochloe odorata</i>                                  |            |              |             |           |            |           |
| PLJA           | <i>Pleuraphis jamesii</i>                                | <i>Hilaria jamesii</i>                                     |            |              |             |           |            |           |
| HODU           | <i>Holodiscus dumosus</i>                                | <i>Holodiscus dumosus</i>                                  |            |              |             |           |            |           |
| HOBR2          | <i>Hordeum brachyantherum</i>                            | <i>Hordeum brachyantherum</i>                              |            |              |             |           |            |           |
| HOJU           | <i>Hordeum jubatum</i>                                   | <i>Hordeum jubatum</i>                                     |            |              |             |           |            |           |
| HULUL          | <i>Humulus lupulus</i> var. <i>lupuloides</i>            | <i>Humulus americanus</i>                                  |            |              |             |           |            |           |
| HYFE           | <i>Hydrophyllum fendleri</i>                             | <i>Hydrophyllum fendleri</i>                               |            |              |             |           |            |           |
| HYFI           | <i>Hymenopappus filifolius</i>                           | <i>Hymenopappus filifolius</i>                             |            |              |             |           |            |           |
| HYFLF          | <i>Hymenopappus flavescens</i> var. <i>flavescens</i>    | <i>Hymenopappus flavescens</i> var. <i>cano-tomentosus</i> |            |              |             |           |            |           |
| HYNE           | <i>Hymenopappus newberryi</i>                            | <i>Hymenopappus newberryi</i>                              |            |              |             |           |            |           |
| HYTE2          | <i>Hymenopappus tenuifolius</i>                          | <i>Hymenopappus tenuifolius</i>                            |            |              |             |           |            |           |
| TECA2          | <i>Tetradymia canescens</i>                              | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>               |            |              |             |           |            |           |
| TEACA          | <i>Tetranneuris acaulis</i> var. <i>arizonica</i>        | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>             |            |              |             |           |            |           |
| TEACN          | <i>Tetranneuris acaulis</i> var. <i>nana</i>             | <i>Hymenoxys argentea</i>                                  |            |              |             |           |            |           |
| TEBR           | <i>Tetranneuris brandegei</i>                            | <i>Hymenoxys brandegei</i>                                 |            |              |             |           |            |           |
| TEIV           | <i>Tetranneuris ivesiana</i>                             | <i>Hymenoxys ivesiana</i>                                  |            |              |             |           |            |           |
| HYRIF          | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>     | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i>       |            |              |             |           |            |           |
| HYNI           | <i>Hyoscyamus niger</i>                                  | <i>Hyoscyamus niger</i>                                    |            |              |             |           |            |           |
| HYFO4          | <i>Hypericum formosum</i>                                | <i>Hypericum formosum</i>                                  |            |              |             |           |            |           |
| IPCO3          | <i>Ipomoea coccinea</i>                                  | <i>Ipomoea coccinea</i>                                    |            |              |             |           |            |           |
| IPHE           | <i>Ipomoea hederacea</i>                                 | <i>Ipomoea hederacea</i>                                   |            |              |             |           |            |           |
| IPAGA3         | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>         | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>         |            |              |             |           |            |           |
| LINUT          | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>        | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>            |            |              |             |           |            |           |
| IPLA2          | <i>Ipomopsis laxiflora</i>                               | <i>Ipomopsis laxiflora</i>                                 |            |              |             |           |            |           |
| IPL02          | <i>Ipomopsis longiflora</i>                              | <i>Ipomopsis longiflora</i>                                |            |              |             |           |            |           |
| IPMU3          | <i>Ipomopsis multiflora</i>                              | <i>Ipomopsis multiflora</i>                                |            |              |             |           |            |           |
| IPPU4          | <i>Ipomopsis pumila</i>                                  | <i>Ipomopsis pumila</i>                                    |            |              |             |           |            |           |
| IRMI           | <i>Iris missouriensis</i>                                | <i>Iris missouriensis</i>                                  |            |              |             |           |            |           |
| IVAX           | <i>Iva axillaris</i>                                     | <i>Iva axillaris</i>                                       |            |              |             |           |            |           |
| IVXA           | <i>Iva xanthifolia</i>                                   | <i>Iva xanthifolia</i>                                     |            |              |             |           |            |           |
| JAAM           | <i>Jamesia americana</i>                                 | <i>Jamesia americana</i>                                   |            |              |             |           |            |           |

# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                        | Martin and Hutchins (1980)                        | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|---------------------------------------------------------|---------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>             | <i>Juncus balticus</i> var. <i>montanus</i>       |         |           |          |           |         |        |
| JUBU        | <i>Juncus bufonius</i>                                  | <i>Juncus bufonius</i>                            |         |           |          |           |         |        |
| JUCO2       | <i>Juncus confusus</i>                                  | <i>Juncus confusus</i>                            |         |           |          |           |         |        |
| JUDR        | <i>Juncus drummondii</i>                                | <i>Juncus drummondii</i>                          |         |           |          |           |         |        |
| JUIN2       | <i>Juncus interior</i>                                  | <i>Juncus interior</i>                            |         |           |          |           |         |        |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>       | <i>Juncus longistylis</i> var. <i>longistylis</i> |         |           |          |           |         |        |
| JUMA4       | <i>Juncus marginatus</i>                                | <i>Juncus marginatus</i>                          |         |           |          |           |         |        |
| JUME4       | <i>Juncus mexicanus</i>                                 | <i>Juncus mexicanus</i>                           |         |           |          |           |         |        |
| JUTE        | <i>Juncus tenuis</i>                                    | <i>Juncus tenuis</i>                              |         |           |          |           |         |        |
| JUTO        | <i>Juncus torreyi</i>                                   | <i>Juncus torreyi</i>                             |         |           |          |           |         |        |
| JUXI        | <i>Juncus xiphioides</i>                                | <i>Juncus xiphioides</i>                          |         |           |          |           |         |        |
| JUCO6       | <i>Juniperus communis</i>                               | <i>Juniperus communis</i>                         |         |           |          |           | Fair    | Fair   |
| JUDE2       | <i>Juniperus deppeana</i>                               | <i>Juniperus deppeana</i>                         |         |           |          |           |         |        |
| JUMO        | <i>Juniperus monosperma</i>                             | <i>Juniperus monosperma</i>                       |         | Fair      |          |           | Good    | Good   |
| JUSC2       | <i>Juniperus scopulorum</i>                             | <i>Juniperus scopulorum</i>                       | Fair    | Good      |          |           | Good    | Good   |
| KAHI        | <i>Kallstroemia hirsutissima</i>                        | <i>Kallstroemia hirsutissima</i>                  |         |           |          |           |         |        |
| KOSC        | <i>Kochia scoparia</i>                                  | <i>Kochia scoparia</i>                            |         |           |          |           |         |        |
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                          |         |           |          |           |         |        |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                             |         |           |          |           |         |        |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                         |         |           |          |           |         |        |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                         |         |           |          |           |         |        |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                       |         |           |          |           |         |        |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                        |         |           |          |           |         |        |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                          |         |           |          |           |         |        |
| LASE        | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                           |         |           |          |           |         |        |
| LABI        | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                            |         |           |          |           |         |        |
| LASQ        | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                           |         |           |          |           |         |        |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                          |         |           |          |           |         |        |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                             |         |           |          |           |         |        |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus arizonicus</i>                        |         |           |          |           |         |        |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus leucanthus</i>                        |         |           |          |           |         |        |
| LEOR        | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                          |         |           |          |           |         |        |
| LEM13       | <i>Lemna minor</i>                                      | <i>Lemna minor</i>                                |         |           |          |           |         |        |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>           | <i>Lepidium medium</i> var. <i>pubescens</i>      |         |           |          |           |         |        |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>        | <i>Lepidium medium</i> var. <i>medium</i>         |         |           |          |           |         |        |
| LEFE        | <i>Lesquerella fendleri</i>                             | <i>Lesquerella fendleri</i>                       |         |           |          |           |         |        |
| LEIN3       | <i>Lesquerella intermedia</i>                           | <i>Lesquerella intermedia</i>                     |         |           |          |           |         |        |
| LERE3       | <i>Lesquerella rectipes</i>                             | <i>Lesquerella rectipes</i>                       |         |           |          |           |         |        |
| CHER2       | <i>Chaetopappa ericoides</i>                            | <i>Leucelene ericoides</i>                        |         |           |          |           |         |        |
| LIPU        | <i>Liatris punctata</i>                                 | <i>Liatris punctata</i>                           |         |           |          |           |         |        |



# WILDLIFE CON'T

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|----------------|--------------------------------------------------------------------------|---------------------------------------------------|------------|--------------|-------------|-----------|------------|-----------|
| LIPO           | <i>Ligusticum porteri</i>                                                | <i>Ligusticum porteri</i>                         |            |              |             |           |            |           |
| LIPHA          | <i>Lilium philadelphicum</i> var. <i>andinum</i>                         | <i>Lilium umbellatum</i>                          |            |              |             |           |            |           |
| LIAQ           | <i>Limosella aquatica</i>                                                | <i>Limosella aquatica</i>                         |            |              |             |           |            |           |
| LIVU2          | <i>Linaria vulgaris</i>                                                  | <i>Linaria vulgaris</i>                           |            |              |             |           |            |           |
| LIAUA          | <i>Linum australe</i> var. <i>australe</i>                               | <i>Linum aristatum</i> var. <i>australe</i>       |            |              |             |           |            |           |
| LILE3          | <i>Linum lewisii</i>                                                     | <i>Linum lewisii</i>                              |            |              |             |           | Fair       |           |
| LINE           | <i>Linum neomexicanum</i>                                                | <i>Linum neomexicana</i>                          |            |              |             |           |            |           |
| LIPU4          | <i>Linum puberulum</i>                                                   | <i>Linum puberulum</i>                            |            |              |             |           |            |           |
| LIRI           | <i>Linum rigidum</i>                                                     | <i>Linum rigidum</i> "complex"                    |            |              |             |           |            |           |
| LICO7          | <i>Lithospermum cobrense</i>                                             | <i>Lithospermum cobrense</i>                      |            |              |             |           |            |           |
| LIIN2          | <i>Lithospermum incisum</i>                                              | <i>Lithospermum incisum</i>                       |            |              |             |           |            |           |
| LIMU3          | <i>Lithospermum multiflorum</i>                                          | <i>Lithospermum multiflorum</i>                   |            |              |             |           |            |           |
| LOCAG2         | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>                           | <i>Lobelia cardinalis</i> subsp. <i>graminae</i>  |            |              |             |           |            |           |
| LOPE           | <i>Lolium perenne</i>                                                    | <i>Lolium perenne</i>                             |            |              |             |           |            |           |
| LOIN5          | <i>Lonicera involucrata</i>                                              | <i>Lonicera involucrata</i>                       |            |              |             |           |            |           |
| LOWR           | <i>Lotus wrightii</i>                                                    | <i>Lotus wrightii</i>                             |            |              |             |           |            |           |
| LUAL5          | <i>Lupinus X alpestris</i>                                               | <i>Lupinus alpestris</i>                          |            |              |             |           |            |           |
| LUAM           | <i>Lupinus ammophilus</i>                                                | <i>Lupinus ammophilus</i>                         |            |              |             |           |            |           |
| LUAR3          | <i>Lupinus argenteus</i>                                                 | <i>Lupinus argenteus</i>                          |            |              |             |           |            |           |
| LUBR2          | <i>Lupinus brevicaulis</i>                                               | <i>Lupinus brevicaulis</i>                        |            |              |             |           |            |           |
| LUCAA          | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                          | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> |            |              |             |           |            |           |
| LUKI           | <i>Lupinus kingii</i>                                                    | <i>Lupinus kingii</i>                             |            |              |             |           |            |           |
| LUPU           | <i>Lupinus pusillus</i>                                                  | <i>Lupinus pusillus</i>                           |            |              |             |           |            |           |
| LUARR          | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>                         | <i>Lupinus rubricaulis</i>                        |            |              |             |           |            |           |
| LUPA4          | <i>Luzula parviflora</i>                                                 | <i>Luzula parviflora</i>                          |            |              |             |           |            |           |
| LYPA           | <i>Lycium pallidum</i>                                                   | <i>Lycium pallidum</i>                            |            |              |             |           |            |           |
| LYAM           | <i>Lycopus americanus</i>                                                | <i>Lycopus americanus</i>                         |            |              |             |           |            |           |
| LYPH           | <i>Lycurus phleoides</i>                                                 | <i>Lycurus phleoides</i>                          |            |              |             |           |            |           |
| PSAS2          | <i>Psilactis asteroides</i>                                              | <i>Machaeranthera amplifolia</i>                  |            |              |             |           |            |           |
| MABI           | <i>Machaeranthera bigelovii</i>                                          | <i>Machaeranthera bigelovii</i>                   |            |              |             |           |            |           |
| MACA2          | <i>Machaeranthera canescens</i>                                          | <i>Machaeranthera canescens</i>                   |            |              |             |           |            |           |
| MACAG2         | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                    |            |              |             |           |            |           |
| MATA2          | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>               |            |              |             |           |            |           |
| MACAI2         | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                   |            |              |             |           |            |           |
| MAFE           | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                       |            |              |             |           |            |           |
| MAMA13         | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                             |            |              |             |           |            |           |
| MANE           | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                            |            |              |             |           |            |           |
| MAPA5          | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                           |            |              |             |           |            |           |

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|----------------|------------------------------------------------------------------------|----------------------------------------------------|------------|--------------|-------------|-----------|------------|-----------|
| MAWR2          | <i>Mammillaria wrightii</i>                                            | <i>Mammillaria wrightii</i>                        |            |              |             |           |            |           |
| MAVU           | <i>Marrubium vulgare</i>                                               | <i>Marrubium vulgare</i>                           |            |              |             |           |            |           |
| MAAN9          | <i>Maurandella antirrhiniflora</i>                                     | <i>Maurandya antirrhiniflora</i>                   |            |              |             |           |            |           |
| MELU           | <i>Medicago lupulina</i>                                               | <i>Medicago lupulina</i>                           |            |              |             |           |            |           |
| MESA           | <i>Medicago sativa</i>                                                 | <i>Medicago sativa</i>                             |            |              | Good        |           | Good       | Good      |
| MELE2          | <i>Melampodium leucanthum</i>                                          | <i>Melampodium leucanthum</i>                      |            |              |             |           |            |           |
| MEPO           | <i>Melica porteri</i>                                                  | <i>Melica porteri</i>                              |            |              |             |           |            |           |
| MEOF           | <i>Melilotus officinalis</i>                                           | <i>Melilotus albus</i>                             |            |              |             |           |            |           |
| MEIN2          | <i>Melilotus indicus</i>                                               | <i>Melilotus indicus</i>                           |            |              |             |           |            |           |
| MEOF           | <i>Melilotus officinalis</i>                                           | <i>Melilotus officinalis</i>                       |            |              | Good        |           | Good       | Good      |
| MESC           | <i>Menodora scabra</i>                                                 | <i>Menodora scabra</i>                             |            |              |             |           |            |           |
| MEAR4          | <i>Mentha arvensis</i>                                                 | <i>Mentha arvensis</i>                             |            |              |             |           |            |           |
| MEAL6          | <i>Mentzelia albicaulis</i>                                            | <i>Mentzelia albicaulis</i>                        |            |              |             |           |            |           |
| MELA           | <i>Mentzelia laciniata</i>                                             | <i>Mentzelia laciniata</i>                         |            |              |             |           |            |           |
| MENUS          | <i>Mentzelia nuda</i> var. <i>stricta</i>                              | <i>Mentzelia nuda</i> var. <i>stricta</i>          |            |              |             |           |            |           |
| MEPUP          | <i>Mentzelia pumila</i> var. <i>pumila</i>                             | <i>Mentzelia pumila</i> var. <i>integra</i>        |            |              |             |           |            |           |
| MEMUI          | <i>Mentzelia multiflora</i> var. <i>integra</i>                        | <i>Mentzelia pumila</i> var. <i>multiflora</i>     |            |              |             |           |            |           |
| MEMUM2         | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                     | <i>Mentzelia pumila</i> var. <i>pumila</i>         |            |              |             |           |            |           |
| MERU           | <i>Mentzelia rusbyi</i>                                                | <i>Mentzelia rusbyi</i>                            |            |              |             |           |            |           |
| MEBR           | <i>Mertensia brevistyla</i>                                            | <i>Mertensia brevistyla</i>                        |            |              |             |           |            |           |
| MEFR2          | <i>Mertensia franciscana</i>                                           | <i>Mertensia franciscana</i>                       |            |              |             |           |            |           |
| MELAN4         | <i>Mertensia lanceolata</i> var. <i>nivalis</i>                        | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   |            |              |             |           |            |           |
| MELAL2         | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                     | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> |            |              |             |           |            |           |
| URLI2          | <i>Uropappus linearifolius</i>                                         | <i>Microseris linearifolia</i>                     |            |              |             |           |            |           |
|                |                                                                        | <i>Microseris minimus</i>                          |            |              |             |           |            |           |
| PHGRG          | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                             | <i>Microsteris gracilis</i>                        |            |              |             |           |            |           |
| MIFL2          | <i>Mimulus floribundus</i>                                             | <i>Mimulus floribundus</i>                         |            |              |             |           |            |           |
| MIGLJ          | <i>Mimulus glabratus</i> var. <i>jamesii</i>                           | <i>Mimulus glabratus</i> var. <i>fremontii</i>     |            |              |             |           |            |           |
| MIGU           | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                            |            |              |             |           |            |           |
| MICO7          | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                          |            |              |             |           |            |           |
| MIMU           | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                        |            |              |             |           |            |           |
| MIOX           | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                      |            |              |             |           |            |           |
| DRPA2          | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                        |            |              |             |           |            |           |
| MOFIM2         | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                        |            |              |             |           |            |           |
| MOPE           | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                           |            |              |             |           |            |           |
| MOHY3          | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                        |            |              |             |           |            |           |
| MUAR4          | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                        |            |              |             |           |            |           |
| MUAS           | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                    |            |              |             |           |            |           |
| MUCU           | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                     |            |              |             |           |            |           |

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|-------------|------------------------------------------------------|----------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| MUME2       | <i>Muhlenbergia mexicana</i>                         | <i>Muhlenbergia mexicana</i>                       |         |           |          |           |         |        |
| MUMO        | <i>Muhlenbergia montana</i>                          | <i>Muhlenbergia montana</i>                        |         |           |          |           |         |        |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                       | <i>Muhlenbergia pauciflora</i>                     |         |           |          |           |         |        |
| MUPO2       | <i>Muhlenbergia porteri</i>                          | <i>Muhlenbergia porteri</i>                        |         |           |          |           |         |        |
| MUPE3       | <i>Muhlenbergia peruviana</i>                        | <i>Muhlenbergia pulcherrima</i>                    |         |           |          |           |         |        |
| MURA        | <i>Muhlenbergia racemosa</i>                         | <i>Muhlenbergia racemosa</i>                       |         |           |          |           |         |        |
| MURI2       | <i>Muhlenbergia rigens</i>                           | <i>Muhlenbergia rigens</i>                         |         |           |          |           |         |        |
| MUTO2       | <i>Muhlenbergia torreyi</i>                          | <i>Muhlenbergia torreyi</i>                        |         |           |          |           |         |        |
| MURA4       | <i>Muhlenbergia ramulosa</i>                         | <i>Muhlenbergia wolfii</i>                         |         |           |          |           |         |        |
| MUWR        | <i>Muhlenbergia wrightii</i>                         | <i>Muhlenbergia wrightii</i>                       |         |           |          |           |         |        |
| MOSQ        | <i>Monroa squarrosa</i>                              | <i>Munroa squarrosa</i>                            |         |           |          |           |         |        |
|             |                                                      | <i>Myosurus minimus</i>                            |         |           |          |           |         |        |
| NADI        | <i>Nama dichotomum</i>                               | <i>Nama dichotomum</i>                             |         |           |          |           |         |        |
| NAHI        | <i>Nama hispidum</i>                                 | <i>Nama hispidum</i> var. <i>hispidum</i>          |         |           |          |           |         |        |
| NECA2       | <i>Nepeta cataria</i>                                | <i>Nepeta cataria</i>                              |         |           |          |           |         |        |
| NIAT        | <i>Nicotiana attenuata</i>                           | <i>Nicotiana attenuata</i>                         |         |           |          |           |         |        |
| NOMI        | <i>Nolina microcarpa</i>                             | <i>Nolina microcarpa</i>                           |         |           |          |           |         |        |
| NOTHO       | <i>Notholaena</i>                                    | <i>Notholaena</i> spp.                             |         |           |          |           |         |        |
| NOST        | <i>Notholaena standleyi</i>                          | <i>Notholaena standleyi</i>                        |         |           |          |           |         |        |
| OEAL        | <i>Oenothera albicaulis</i>                          | <i>Oenothera albicaulis</i>                        |         |           |          |           |         |        |
| OECE2       | <i>Oenothera caespitosa</i>                          | <i>Oenothera caespitosa</i>                        |         |           |          |           |         |        |
| OECEM3      | <i>Oenothera caespitosa</i> ssp. <i>macroglottis</i> | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>   |         |           |          |           |         |        |
| OECEC2      | <i>Oenothera caespitosa</i> ssp. <i>caespitosa</i>   | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  |         |           |          |           |         |        |
| OECO2       | <i>Oenothera coronopifolia</i>                       | <i>Oenothera coronopifolia</i>                     |         |           |          |           |         |        |
| OEFL        | <i>Oenothera flava</i>                               | <i>Oenothera flava</i>                             |         |           |          |           |         |        |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>           | <i>Oenothera hookeri</i>                           |         |           |          |           |         |        |
| OELA        | <i>Oenothera laciniata</i>                           | <i>Oenothera laciniata</i> var. <i>laciniata</i>   |         |           |          |           |         |        |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>         | <i>Oenothera pallida</i> subsp. <i>pallida</i>     |         |           |          |           |         |        |
| OEPR        | <i>Oenothera primiveris</i>                          | <i>Oenothera primiveris</i>                        |         |           |          |           |         |        |
| OPCL        | <i>Opuntia clavata</i>                               | <i>Opuntia clavata</i>                             |         |           |          |           |         |        |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>         | <i>Opuntia erinacea</i> var. <i>erinacea</i>       |         |           |          |           |         |        |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>        | <i>Opuntia erinacea</i> var. <i>utahensis</i>      |         |           |          |           |         |        |
| OPIM        | <i>Opuntia imbricata</i>                             | <i>Opuntia imbricata</i>                           |         |           |          |           |         |        |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>     | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   |         |           |          |           |         |        |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>   | <i>Opuntia phaeacantha</i> var. <i>discata</i>     |         |           |          |           |         |        |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>   | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> |         |           |          |           |         |        |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>   | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> |         |           |          |           |         |        |
| ORFA        | <i>Orobancha fasciculata</i>                         | <i>Orobancha fasciculata</i> var. <i>lutea</i>     |         |           |          |           |         |        |
| ORLU        | <i>Orobancha ludoviciana</i>                         | <i>Orobancha ludoviciana</i>                       |         |           |          |           |         |        |
| ORLUM       | <i>Orobancha ludoviciana</i> ssp. <i>multiflora</i>  | <i>Orobancha multiflora</i>                        |         |           |          |           |         |        |

# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                               | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|-------------------------------------------------------------|----------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| ORLU2       | <i>Orthocarpus luteus</i>                                   | <i>Orthocarpus luteus</i>                                |         |           |          |           |         |        |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                            | <i>Orthocarpus purpureo-albus</i>                        |         |           |          |           |         |        |
| ORAS        | <i>Oryzopsis asperifolia</i>                                | <i>Oryzopsis asperifolia</i>                             |         |           |          |           |         |        |
| ACHY        | <i>Achnatherum hymenoides</i>                               | <i>Oryzopsis hymenoides</i>                              |         |           |          |           | Fair    |        |
| PIMI7       | <i>Piptatherum micranthum</i>                               | <i>Oryzopsis micrantha</i>                               |         |           |          |           |         |        |
| OSDE        | <i>Osmorhiza depauperata</i>                                | <i>Osmorhiza obtusa</i>                                  |         |           |          |           |         |        |
| OXAL2       | <i>Oxalis alpina</i>                                        | <i>Oxalis metcalfei</i>                                  |         |           |          |           |         |        |
| OXVI        | <i>Oxalis violacea</i>                                      | <i>Oxalis violacea</i>                                   |         |           |          |           |         |        |
| MIHI        | <i>Mirabilis hirsuta</i>                                    | <i>Oxybaphus hirsutus</i>                                |         |           |          |           |         |        |
| MILI3       | <i>Mirabilis linearis</i>                                   | <i>Oxybaphus linearis</i> var. <i>linearis</i>           |         |           |          |           |         |        |
| OXFE        | <i>Oxyopolis fendleri</i>                                   | <i>Oxyopolis fendleri</i>                                |         |           |          |           |         |        |
| OXLA3       | <i>Oxytropis lambertii</i>                                  | <i>Oxytropis lambertii</i>                               |         |           |          |           |         |        |
| PAMY        | <i>Paxistima myrsinites</i>                                 | <i>Pachystima myrsinites</i>                             |         |           |          |           |         |        |
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                                  |         |           |          |           |         |        |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i>           |         |           |          |           |         |        |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                                    |         |           |          |           |         |        |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                                   |         |           |          |           |         |        |
| PAMI2       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                                 |         |           |          |           |         |        |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                                   |         |           |          |           |         |        |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                             |         |           |          |           |         |        |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                              |         |           |          |           |         |        |
| PAVI2       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                                  |         |           |          |           |         |        |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                                |         |           |          |           |         |        |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                            |         |           |          |           |         |        |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                               |         |           |          |           |         |        |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                                    |         |           |          |           |         |        |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                                 |         |           |          |           |         |        |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                         |         |           |          |           |         |        |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                              |         |           |          |           |         |        |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                                  |         |           |          |           |         |        |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                                 |         |           |          |           |         |        |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                            |         |           |          |           |         |        |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>          |         |           |          |           |         |        |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                                 |         |           |          |           |         |        |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                                |         |           |          |           |         |        |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                                 |         |           |          |           |         |        |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                                  |         |           |          |           |         |        |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>      | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> |         |           |          |           |         |        |
| PEOL        | <i>Penstemon oliganthus</i>                                 | <i>Penstemon oliganthus</i>                              |         |           |          |           |         |        |
| PERY        | <i>Penstemon rydbergii</i>                                  | <i>Penstemon rydbergii</i>                               |         |           |          |           |         |        |

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| PESE11      | <i>Penstemon secundiflorus</i>                            | <i>Penstemon secundiflorus</i>                            |         |           |          |           |         |        |
| PEVI4       | <i>Penstemon virgatus</i>                                 | <i>Penstemon virgatus</i>                                 |         |           |          |           |         |        |
| PEWH        | <i>Penstemon whippleanus</i>                              | <i>Penstemon whippleanus</i>                              |         |           |          |           |         |        |
| PECA10      | <i>Pericome caudata</i>                                   | <i>Pericome caudata</i>                                   |         |           |          |           |         |        |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                  | <i>Petalostemum candidum</i>                              |         |           |          |           |         |        |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                | <i>Petalostemum compactum</i>                             |         |           |          |           |         |        |
| DAEX2       | <i>Dalea exigua</i>                                       | <i>Petalostemum exile</i>                                 |         |           |          |           |         |        |
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                | <i>Petalostemum purpureum</i>                             |         |           |          |           |         |        |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                  | <i>Petalostemum villosum</i>                              |         |           |          |           |         |        |
| PHCO        | <i>Phacelia coerulea</i>                                  | <i>Phacelia coerulea</i>                                  |         |           |          |           |         |        |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>           | <i>Phacelia corrugata</i>                                 |         |           |          |           |         |        |
| PHHE2       | <i>Phacelia heterophylla</i>                              | <i>Phacelia heterophylla</i>                              |         |           |          |           |         |        |
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              |         |           |          |           |         |        |
| PHEG        | <i>Phacelia egea</i>                                      | <i>Phacelia magellanica</i>                               |         |           |          |           |         |        |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       |         |           |          |           |         |        |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            |         |           |          |           |         |        |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              |         |           |          |           |         |        |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> |         |           |          |           |         |        |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     |         |           |          |           |         |        |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    |         |           | Good     | Fair      |         |        |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   |         |           |          |           | Poor    | Poor   |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             |         |           |          |           |         |        |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                |         |           |          |           |         |        |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           |         |           |          |           |         |        |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        |         |           |          |           |         |        |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 |         |           |          |           |         |        |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               |         |           |          |           | Fair    | Fair   |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  | Good    | Good      |          |           | Good    | Good   |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      | Good    | Good      |          |           | Good    | Good   |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | Fair    | Good      | Poor     |           | Good    | Good   |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     | Good    | Good      |          |           | Good    | Good   |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | Good    | Good      | Poor     |           | Good    | Good   |
| PLAR2       | <i>Plantago argyrea</i>                                   | <i>Plantago argyrea</i>                                   |         |           |          |           |         |        |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     |         |           |          |           |         |        |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   |         |           |          |           |         |        |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          |         |           |          |           |         |        |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      |         |           |          |           |         |        |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      |         |           |          |           |         |        |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    |         |           |          |           |         |        |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       |         |           |          |           |         |        |

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| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    |         |           |          |           |         |        |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     |         |           |          |           |         |        |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      |         |           |          |           |         |        |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    |         |           |          |           |         |        |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      |         |           |          |           |         |        |
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             |         |           |          |           |         |        |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> |         |           |          |           |         |        |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        |         |           |          |           |         |        |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                |         |           |          |           |         |        |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             |         |           |          |           |         |        |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              |         |           |          |           |         |        |
| PODO4       | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                |         |           |          |           |         |        |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>          | <i>Polygonum montanum</i>                                 |         |           |          |           |         |        |
| POPE3       | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                               |         |           |          |           |         |        |
| PORA3       | <i>Polygonum ramosissimum</i>                             | <i>Polygonum ramosissimum</i>                             |         |           |          |           |         |        |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i>         | <i>Polygonum sawatchense</i>                              |         |           |          |           |         |        |
| POMO5       | <i>Polypogon monspeliensis</i>                            | <i>Polypogon monspeliensis</i>                            |         |           |          |           |         |        |
| POAN3       | <i>Populus angustifolia</i>                               | <i>Populus angustifolia</i>                               | Fair    | Fair      | Poor     |           | Good    | Good   |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>            | <i>Populus fremontii</i> var. <i>wislizenii</i>           |         |           | Poor     |           | Good    | Good   |
| POTR5       | <i>Populus tremuloides</i>                                | <i>Populus tremuloides</i> var. <i>aurea</i>              | Fair    | Fair      | Poor     |           | Good    |        |
| POOL        | <i>Portulaca oleracea</i>                                 | <i>Portulaca oleracea</i>                                 |         |           |          |           |         |        |
| ARAN7       | <i>Argentina anserina</i>                                 | <i>Potentilla anserina</i>                                |         |           |          |           |         |        |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>          | <i>Potentilla arguta</i> subsp. <i>convallaria</i>        |         |           |          |           |         |        |
| POCO13      | <i>Potentilla concinna</i>                                | <i>Potentilla concinna</i>                                |         |           |          |           |         |        |
| POCR4       | <i>Potentilla crinita</i>                                 | <i>Potentilla crinita</i>                                 |         |           |          |           |         |        |
| PEFL15      | <i>Pentaphylloides floribunda</i>                         | <i>Potentilla fruticosa</i>                               |         |           | Poor     |           |         |        |
| POHI6       | <i>Potentilla hippiana</i>                                | <i>Potentilla hippiana</i>                                |         |           |          |           |         |        |
| PONO3       | <i>Potentilla norvegica</i>                               | <i>Potentilla norvegica</i>                               |         |           |          |           |         |        |
| POPE8       | <i>Potentilla pennsylvanica</i>                           | <i>Potentilla pennsylvanica</i>                           |         |           |          |           |         |        |
| POPU9       | <i>Potentilla pulcherrima</i>                             | <i>Potentilla pulcherrima</i>                             |         |           |          |           |         |        |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>           | <i>Potentilla thurberi</i> var. <i>thurberi</i>           |         |           |          |           |         |        |
| PRRU        | <i>Primula rusbyi</i>                                     | <i>Primula rusbyi</i>                                     |         |           |          |           |         |        |
| PRVU        | <i>Prunella vulgaris</i>                                  | <i>Prunella vulgaris</i>                                  |         |           |          |           |         |        |
| PRAM        | <i>Prunus americana</i>                                   | <i>Prunus americana</i>                                   |         |           |          |           | Fair    | Fair   |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>           | <i>Prunus emarginata</i> var. <i>emarginata</i>           |         |           |          |           |         |        |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          | Poor    | Fair      | Fair     |           | Good    | Good   |
| PSMO        | <i>Pseudocymopterus montanus</i>                          | <i>Pseudocymopterus montanus</i>                          |         |           |          |           |         |        |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | Good    | Good      | Fair     |           | Good    | Good   |
| PSTA        | <i>Psilotrophe tagetina</i>                               | <i>Psilotrophe tagetina</i>                               |         |           |          |           |         |        |
| PEHYH       | <i>Pediomelum hypogaeum</i> var. <i>hypogaeum</i>         | <i>Psoralea hypogaea</i>                                  |         |           |          |           |         |        |

# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                            | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|-----------------------------------------------------------|-------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| PSLA3       | <i>Psoralea lanceolata</i>                                | <i>Psoralea lanceolata</i>                            |         |           |          |           |         |        |
| PSTE5       | <i>Psoralea tenuiflora</i>                                | <i>Psoralea tenuiflora</i>                            |         |           |          |           |         |        |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>         | <i>Ptelea trifoliata</i> susp <i>angustifolia</i>     |         |           |          |           |         |        |
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>          | <i>Pteridium aquilinum</i> var. <i>pubescens</i>      |         |           |          |           |         |        |
| PTAN2       | <i>Pterospora andromedea</i>                              | <i>Pterospora andromedea</i>                          |         |           |          |           |         |        |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>            | <i>Pulsatilla ludoviciana</i>                         |         |           |          |           |         |        |
| PUTR2       | <i>Purshia tridentata</i>                                 | <i>Purshia tridentata</i>                             |         |           |          |           | Fair    | Fair   |
| PYAS        | <i>Pyrola asarifolia</i>                                  | <i>Pyrola asarifolia</i>                              |         |           |          |           |         |        |
| PYCH        | <i>Pyrola chlorantha</i>                                  | <i>Pyrola chlorantha</i>                              |         |           |          |           |         |        |
| PYEL        | <i>Pyrola elliptica</i>                                   | <i>Pyrola elliptica</i>                               |         |           |          |           |         |        |
| PYMI        | <i>Pyrola minor</i>                                       | <i>Pyrola minor</i>                                   |         |           |          |           |         |        |
| PYPI2       | <i>Pyrola picta</i>                                       | <i>Pyrola picta</i>                                   |         |           |          |           |         |        |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       |         |           |          |           |         |        |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               | Good    | Good      | Good     |           | Good    | Good   |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 |         |           |          |           |         |        |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                |         |           |          |           |         |        |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             |         |           |          |           |         |        |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               |         |           |          |           |         |        |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              |         |           |          |           |         |        |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           |         |           |          |           |         |        |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   |         |           |          |           |         |        |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       |         |           |          |           |         |        |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> |         |           |          |           |         |        |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           |         |           |          |           |         |        |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            |         |           |          |           |         |        |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          |         |           |          |           |         |        |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   |         |           |          |           |         |        |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           |         |           |          |           |         |        |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               |         |           |          |           |         |        |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    |         |           |          |           | Fair    | Fair   |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i>        | <i>Rhus radicans</i>                                  |         |           |          |           |         |        |
| RHTR        | <i>Rhus trilobata</i>                                     | <i>Rhus trilobata</i>                                 |         |           |          |           | Good    | Good   |
| RICE        | <i>Ribes cereum</i>                                       | <i>Ribes cereum</i>                                   |         |           | Fair     |           | Fair    | Fair   |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>               | <i>Ribes inebrians</i>                                |         |           |          |           |         |        |
| RIIN2       | <i>Ribes inerme</i>                                       | <i>Ribes inerme</i>                                   |         |           |          |           |         |        |
| RILE        | <i>Ribes leptanthum</i>                                   | <i>Ribes leptanthum</i>                               |         |           |          |           |         |        |
| RIMO2       | <i>Ribes montigenum</i>                                   | <i>Ribes montigenum</i>                               |         |           |          |           |         |        |
| RIPI        | <i>Ribes pinetorum</i>                                    | <i>Ribes pinetorum</i>                                |         |           |          |           |         |        |
| RIWO        | <i>Ribes wolfii</i>                                       | <i>Ribes wolfii</i>                                   |         |           |          |           |         |        |
| RONE        | <i>Robinia neomexicana</i>                                | <i>Robinia neomexicana</i>                            |         |           |          |           |         |        |

# WILDLIFE CON'T

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|-------------|--------------------------------------------------------|----------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| ROIS2       | <i>Rorippa islandica</i>                               | <i>Rorippa islandica</i>                                 |         |           |          |           |         |        |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                    | <i>Rorippa nasturtium-aquaticum</i>                      |         |           |          |           |         |        |
| ROTE2       | <i>Rorippa teres</i>                                   | <i>Rorippa obtusa</i>                                    |         |           |          |           |         |        |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>femaldiana</i>        | <i>Rorippa palustris</i> subsp. <i>glabra</i>            |         |           |          |           |         |        |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>           | <i>Rorippa palustris</i> subsp. <i>hispida</i>           |         |           |          |           |         |        |
| ROSI2       | <i>Rorippa sinuata</i>                                 | <i>Rorippa sinuata</i>                                   |         |           |          |           |         |        |
| ROSY        | <i>Rorippa sylvestris</i>                              | <i>Rorippa sylvestris</i>                                |         |           |          |           |         |        |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>           | <i>Rorippa truncata</i>                                  |         |           |          |           |         |        |
| RONU        | <i>Rosa nutkana</i>                                    | <i>Rosa nutkana</i>                                      |         |           |          |           |         |        |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>arizonica</i>                |         |           |          |           | Good    | Good   |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>fendleri</i>                 |         |           |          |           | Good    | Good   |
| RUPA        | <i>Rubus parviflorus</i>                               | <i>Rubus parviflorus</i>                                 |         |           |          |           |         |        |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>              | <i>Rubus strigosus</i> var. <i>arizonicus</i>            |         |           |          |           |         |        |
| RUHI2       | <i>Rudbeckia hirta</i>                                 | <i>Rudbeckia hirta</i>                                   |         |           |          |           |         |        |
| RULA3       | <i>Rudbeckia laciniata</i>                             | <i>Rudbeckia laciniata</i>                               |         |           |          |           |         |        |
| RUAC3       | <i>Rumex acetosella</i>                                | <i>Rumex acetosella</i>                                  |         |           |          |           |         |        |
| RUCR        | <i>Rumex crispus</i>                                   | <i>Rumex crispus</i>                                     |         |           |          |           |         |        |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex mexicanus</i>                                   |         |           |          |           |         |        |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                |         |           |          |           |         |        |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   |         |           |          |           |         |        |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             |         |           |          |           |         |        |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    |         |           |          |           |         |        |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     |         |           |          |           |         |        |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      |         |           |          |           |         |        |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    |         |           |          |           |         |        |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 |         |           |          |           |         |        |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  |         |           |          |           |         |        |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    |         |           |          |           |         |        |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  |         |           |          |           |         |        |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              |         |           |          |           |         |        |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |         |           |          |           |         |        |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                |         |           |          |           |         |        |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             |         |           |          |           |         |        |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           |         |           |          |           | Fair    | Good   |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> |         |           |          |           |         |        |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              |         |           |          |           |         |        |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         |         |           |          |           |         |        |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           |         |           |          |           |         |        |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           |         |           |          |           |         |        |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              |         |           |          |           |         |        |



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|-------------|-------------------------------------------------------|----------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| SECO        | <i>Sedum cockerellii</i>                              | <i>Sedum cockerellii</i>                           |         |           |          |           |         |        |
| SEAR3       | <i>Senecio arizonicus</i>                             | <i>Senecio arizonicus</i>                          |         |           |          |           |         |        |
| SEAT        | <i>Senecio atratus</i>                                | <i>Senecio atratus</i>                             |         |           |          |           |         |        |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>        | <i>Senecio bigelovii</i> var. <i>bigelovii</i>     |         |           |          |           |         |        |
| SECR        | <i>Senecio crassulus</i>                              | <i>Senecio crassulus</i>                           |         |           |          |           |         |        |
| SECY        | <i>Senecio cymbalarioides</i>                         | <i>Senecio cymbalarioides</i>                      |         |           |          |           |         |        |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>        | <i>Senecio douglasii</i> var. <i>longilobus</i>    |         |           |          |           |         |        |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougalii</i>    | <i>Senecio eremophilus</i> var. <i>macdougalii</i> |         |           |          |           |         |        |
| SEENEN      | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>                          |         |           |          |           |         |        |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>                            |         |           |          |           |         |        |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                      |         |           |          |           |         |        |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                        |         |           |          |           |         |        |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>                        |         |           |          |           |         |        |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>                         |         |           |          |           |         |        |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>                        |         |           |          |           |         |        |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>                         |         |           |          |           |         |        |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>                        |         |           |          |           |         |        |
| SEWE2       | <i>Senecio werneriaefolius</i>                        | <i>Senecio werneriaefolius</i>                     |         |           |          |           |         |        |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                            |         |           |          |           |         |        |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                          |         |           |          |           |         |        |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                           |         |           |          |           |         |        |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                        |         |           |          |           |         |        |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                             |         |           |          |           |         |        |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                            |         |           |          |           |         |        |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                           |         |           |          |           |         |        |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                           |         |           |          |           |         |        |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                             |         |           |          |           |         |        |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                       |         |           |          |           |         |        |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                            |         |           |          |           |         |        |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                       |         |           |          |           |         |        |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                       |         |           |          |           |         |        |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>                       |         |           |          |           |         |        |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystrix</i>                            |         |           |          |           |         |        |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>    | <i>Smilacina racemosa</i>                          |         |           |          |           |         |        |
| MAST4       | <i>Maianthemum stellatum</i>                          | <i>Smilacina stellata</i>                          |         |           |          |           |         |        |
| SOAM        | <i>Solanum americanum</i>                             | <i>Solanum americanum</i>                          |         |           |          |           |         |        |
| SODO        | <i>Solanum douglasii</i>                              | <i>Solanum douglasii</i>                           |         |           |          |           |         |        |
| SOEL        | <i>Solanum elaeagnifolium</i>                         | <i>Solanum elaeagnifolium</i>                      |         |           |          |           |         |        |
| SOJA        | <i>Solanum jamesii</i>                                | <i>Solanum jamesii</i>                             |         |           |          |           |         |        |
| SOPT3       | <i>Solanum ptychanthum</i>                            | <i>Solanum nigrum</i>                              |         |           |          |           |         |        |

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|----------------|-----------------------------------------------------------------|-------------------------------------------------------|------------|--------------|-------------|-----------|------------|-----------|
| SORO           | <i>Solanum rostratum</i>                                        | <i>Solanum rostratum</i>                              |            |              |             |           |            |           |
| SOSA           | <i>Solanum sarrachoides</i>                                     | <i>Solanum sarachoides</i>                            |            |              |             |           |            |           |
| SOTR           | <i>Solanum triflorum</i>                                        | <i>Solanum triflorum</i>                              |            |              |             |           |            |           |
| SOCAS5         | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             |            |              |             |           |            |           |
| SOCAC3         | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     |            |              |             |           |            |           |
| SOCAG          | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> |            |              |             |           |            |           |
| SOMO           | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                |            |              |             |           |            |           |
| SOMU           | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          |            |              |             |           |            |           |
| EUOC4          | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          |            |              |             |           |            |           |
| SOSPP          | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               |            |              |             |           |            |           |
| PEPUP          | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            |            |              |             |           |            |           |
| SOVE6          | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           |            |              |             |           |            |           |
| SOSIS3         | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    |            |              |             |           |            |           |
| SOWRW          | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         |            |              |             |           |            |           |
| SOAS           | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  |            |              |             |           |            |           |
| SOOL           | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              |            |              |             |           |            |           |
| SONU           | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            |            |              |             |           |            |           |
| SONU2          | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             |            |              |             |           |            |           |
| SPSAS          | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             |            |              |             |           |            |           |
| SPAN3          | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> |            |              |             |           |            |           |
| SPCOE          | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         |            |              |             |           |            |           |
| SPFEF          | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      |            |              |             |           |            |           |
| SPIN2          | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             |            |              |             |           |            |           |
| SPIN3          | <i>Sphenopholis intermedia</i>                                  | <i>Sphenopholis intermedia</i>                        |            |              |             |           |            |           |
| SPAI           | <i>Sporobolus airoides</i>                                      | <i>Sporobolus airoides</i>                            |            |              |             |           |            |           |
| SPCOC2         | <i>Sporobolus compositus</i> var. <i>compositus</i>             | <i>Sporobolus asper</i>                               |            |              |             |           |            |           |
| SPCO4          | <i>Sporobolus contractus</i>                                    | <i>Sporobolus contractus</i>                          |            |              |             |           |            |           |
| SPCR           | <i>Sporobolus cryptandrus</i>                                   | <i>Sporobolus cryptandrus</i>                         |            |              |             |           |            |           |
| SPNE           | <i>Sporobolus nealleyi</i>                                      | <i>Sporobolus nealleyi</i>                            |            |              |             |           |            |           |
| SPTE5          | <i>Sporobolus texanus</i>                                       | <i>Sporobolus texanus</i>                             |            |              |             |           |            |           |
| STPA           | <i>Stachys palustris</i>                                        | <i>Stachys palustris</i>                              |            |              |             |           |            |           |
| STPI           | <i>Stanleya pinnata</i>                                         | <i>Stanleya pinnata</i>                               |            |              |             |           |            |           |
| PSJA2          | <i>Pseudostellaria jamesiana</i>                                | <i>Stellaria jamesiana</i>                            |            |              |             |           |            |           |
| STLO           | <i>Stellaria longifolia</i>                                     | <i>Stellaria longifolia</i>                           |            |              |             |           |            |           |
| STLO2          | <i>Stellaria longipes</i>                                       | <i>Stellaria longipes</i>                             |            |              |             |           |            |           |
| STPA4          | <i>Stephanomeria pauciflora</i>                                 | <i>Stephanomeria pauciflora</i>                       |            |              |             |           |            |           |
| STTE2          | <i>Stephanomeria tenuifolia</i>                                 | <i>Stephanomeria tenuifolia</i>                       |            |              |             |           |            |           |
| ACNED          | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>                   | <i>Stipa columbiana</i>                               |            |              |             |           |            |           |
| HECOC8         | <i>Hesperostipa comata</i> ssp. <i>comata</i>                   | <i>Stipa comata</i>                                   |            |              |             |           |            |           |
| ACEM4          | <i>Achnatherum eminens</i>                                      | <i>Stipa eminens</i>                                  |            |              |             |           |            |           |

# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                           | Martin and Hutchins (1980)                                 | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|------------------------------------------------------------|------------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| ACLE9       | <i>Achnatherum lettermanii</i>                             | <i>Stipa lettermanii</i>                                   |         |           |          |           |         |        |
| HENE5       | <i>Hesperostipa neomexicana</i>                            | <i>Stipa neomexicana</i>                                   |         |           |          |           |         |        |
| ACRO7       | <i>Achnatherum robustum</i>                                | <i>Stipa robusta</i>                                       |         |           |          |           |         |        |
| STCO6       | <i>Streptanthus cordatus</i>                               | <i>Streptanthus cordatus</i>                               |         |           |          |           |         |        |
| STAM2       | <i>Streptopus amplexifolius</i>                            | <i>Streptopus amplexifolius</i>                            |         |           |          |           |         |        |
| FRSP        | <i>Frasera speciosa</i>                                    | <i>Swertia radiata</i>                                     |         |           |          |           |         |        |
| SYOC        | <i>Symphoricarpos occidentalis</i>                         | <i>Symphoricarpos occidentalis</i>                         |         |           |          |           |         |        |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                           | <i>Symphoricarpos oreophilus</i>                           |         |           |          |           |         |        |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                          | <i>Symphoricarpos rotundifolius</i>                        |         |           |          |           |         |        |
| TAPA3       | <i>Talinum parviflorum</i>                                 | <i>Talinum parviflorum</i>                                 |         |           |          |           |         |        |
| TAGA        | <i>Tamarix gallica</i>                                     | <i>Tamarix gallica</i>                                     |         |           |          |           |         |        |
| TACH2       | <i>Tamarix chinensis</i>                                   | <i>Tamarix pentandra</i>                                   |         |           | Good     |           | Good    |        |
| TALA2       | <i>Taraxacum laevigatum</i>                                | <i>Taraxacum laevigatum</i>                                |         |           |          |           |         |        |
| TAOF        | <i>Taraxacum officinale</i>                                | <i>Taraxacum officinale</i>                                |         |           |          |           |         |        |
| TECA2       | <i>Tetradymia canescens</i>                                | <i>Tetradymia canescens</i>                                |         |           |          |           |         | Fair   |
| TECA2       | <i>Tetradymia canescens</i>                                | <i>Tetradymia canescens</i> var. <i>inermis</i>            |         |           |          |           |         |        |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            |         |           |          |           |         |        |
| THFI        | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      |         |           |          |           |         |        |
| THME        | <i>Thelesperma megapotamicum</i>                           | <i>Thelesperma megapotamicum</i>                           |         |           |          |           |         |        |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>       | <i>Thelesperma trifidum</i>                                |         |           |          |           |         |        |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i> | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> |         |           |          |           |         |        |
| THWR        | <i>Thelypodium wrightii</i>                                | <i>Thelypodium wrightii</i>                                |         |           |          |           |         |        |
| THMO6       | <i>Thermopsis montana</i>                                  | <i>Thermopsis montanum</i>                                 |         |           |          |           |         |        |
| THDI4       | <i>Thermopsis divaricarpa</i>                              | <i>Thermopsis pinetorum</i>                                |         |           |          |           |         |        |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>               | <i>Thlaspi alpestre</i>                                    |         |           |          |           |         |        |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>         | <i>Torreyochloa pauciflora</i>                             |         |           |          |           |         |        |
| TOAN        | <i>Townsendia annua</i>                                    | <i>Townsendia annua</i>                                    |         |           |          |           |         |        |
| TOEX        | <i>Townsendia eximia</i>                                   | <i>Townsendia eximia</i>                                   |         |           |          |           |         |        |
| TOFO        | <i>Townsendia formosa</i>                                  | <i>Townsendia formosa</i>                                  |         |           |          |           |         |        |
| TOIN        | <i>Townsendia incana</i>                                   | <i>Townsendia incana</i>                                   |         |           |          |           |         |        |
| TOEX2       | <i>Townsendia exscapa</i>                                  | <i>Townsendia exscapa</i>                                  |         |           |          |           |         |        |
| TRNE        | <i>Tragia nepetifolia</i>                                  | <i>Tragia nepetaefolia</i>                                 |         |           |          |           |         |        |
| TRDU        | <i>Tragopogon dubius</i>                                   | <i>Tragopogon dubius</i>                                   |         |           |          |           |         |        |
| TRPR        | <i>Tragopogon pratensis</i>                                | <i>Tragopogon pratensis</i>                                |         |           |          |           |         |        |
| TRCAO       | <i>Trautvetteria carolinensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                               |         |           |          |           |         |        |
| TRTE        | <i>Tribulus terrestris</i>                                 | <i>Tribulus terrestris</i>                                 |         |           |          |           |         |        |
| ERPU8       | <i>Erioneuron pulchellum</i>                               | <i>Tridens pulchellus</i>                                  |         |           |          |           |         |        |
| TRDA2       | <i>Trifolium dasyphyllum</i>                               | <i>Trifolium dasyphyllum</i>                               |         |           |          |           |         |        |
| TRHY        | <i>Trifolium hybridum</i>                                  | <i>Trifolium hybridum</i>                                  |         |           |          |           |         |        |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>            | <i>Trifolium lacerum</i>                                   |         |           |          |           |         |        |

# WILDLIFE CON'T

| USDA Symbol | USDA NRCS PLANTS                                           | Martin and Hutchins (1980)                           | Elk Cov | Mule Deer | Upl Game | Waterfowl | Sm NonG | Sm Mam |
|-------------|------------------------------------------------------------|------------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
| TRPR2       | <i>Trifolium pratense</i>                                  | <i>Trifolium pratense</i>                            |         |           | Good     |           |         |        |
| TRCA5       | <i>Trifolium campestre</i>                                 | <i>Trifolium procumbens</i>                          |         |           |          |           |         |        |
| TRRE3       | <i>Trifolium repens</i>                                    | <i>Trifolium repens</i>                              |         |           |          |           |         |        |
| TRPE4       | <i>Triodanis perfoliata</i>                                | <i>Triodanis perfoliata</i>                          |         |           |          |           |         |        |
| TRMO5       | <i>Trisetum montanum</i>                                   | <i>Trisetum montanum</i>                             |         |           |          |           |         |        |
| TRSP2       | <i>Trisetum spicatum</i>                                   | <i>Trisetum spicatum</i>                             |         |           |          |           |         |        |
| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                               |         |           |          | Good      | Good    |        |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         |         |           |          |           |         |        |
| URGR        | <i>Urtica gracilentia</i>                                  | <i>Urtica gracilentia</i>                            |         |           |          |           |         |        |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               |         |           |          |           |         |        |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           |         |           |          |           |         |        |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           |         |           |          |           |         |        |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    |         |           |          |           |         |        |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         |         |           |          |           |         |        |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             |         |           |          |           |         |        |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         |         |           |          |           |         |        |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             |         |           |          |           |         |        |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             |         |           |          |           |         |        |
| VEMA        | <i>Verbena macdougalii</i>                                 | <i>Verbena macdougalii</i>                           |         |           |          |           |         |        |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              |         |           |          |           |         |        |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> |         |           |          |           |         |        |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            |         |           |          |           |         |        |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             |         |           |          |           |         |        |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     |         |           |          |           |         |        |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        |         |           |          |           |         |        |
| VEWO2       | <i>Veronica wormskjoldii</i>                               | <i>Veronica wormskjoldii</i>                         |         |           |          |           |         |        |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              |         |           |          |           |         |        |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>               | <i>Vicia americana</i> var. <i>americana</i>         |         |           |          |           |         |        |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>linearis</i>          |         |           |          |           |         |        |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>             |         |           |          |           |         |        |
| VILUL2      | <i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>           | <i>Vicia exigua</i>                                  |         |           |          |           |         |        |
| VILE3       | <i>Vicia leucophaea</i>                                    | <i>Vicia leucophaea</i>                              |         |           |          |           |         |        |
| VICO        | <i>Viguiera cordifolia</i>                                 | <i>Viguiera cordifolia</i>                           |         |           |          |           |         |        |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i>        | <i>Viguiera multiflora</i>                           |         |           |          |           |         |        |
| VIAD        | <i>Viola adunca</i>                                        | <i>Viola adunca</i>                                  |         |           |          |           |         |        |
| VICA4       | <i>Viola canadensis</i>                                    | <i>Viola canadensis</i>                              |         |           |          |           |         |        |
| VISO        | <i>Viola sororia</i>                                       | <i>Viola nephrophylla</i>                            |         |           |          |           |         |        |
| VIPE2       | <i>Viola pedatifida</i>                                    | <i>Viola pedatifida</i>                              |         |           |          |           |         |        |
| VIAR2       | <i>Vitis arizonica</i>                                     | <i>Vitis arizonica</i> var. <i>arizonica</i>         |         |           |          |           |         |        |
| VIVU        | <i>Vitis vulpina</i>                                       | <i>Vitis vulpina</i>                                 |         |           |          |           |         |        |

## WILDLIFE CON'T

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|-------------|--------------------------------------------------|--------------------------------------------------|---------|-----------|----------|-----------|---------|--------|
|             |                                                  | <i>Woodsia mexicana</i>                          |         |           |          |           |         |        |
| WOOR        | <i>Woodsia oregana</i>                           | <i>Woodsia oregana</i>                           |         |           |          |           |         |        |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i> | <i>Xanthium strumarium</i> var. <i>canadense</i> |         |           |          |           |         |        |
| YUAN2       | <i>Yucca angustissima</i>                        | <i>Yucca angustissima</i>                        |         |           |          |           |         |        |
| YUBA        | <i>Yucca baccata</i>                             | <i>Yucca baccata</i>                             |         |           |          |           |         |        |
| YUGL        | <i>Yucca glauca</i>                              | <i>Yucca glauca</i>                              |         |           |          |           |         |        |
| ZIGR        | <i>Zinnia grandiflora</i>                        | <i>Zinnia grandiflora</i>                        |         |           |          |           |         |        |
| ZIEL2       | <i>Zygadenus elegans</i>                         | <i>Zygadenus elegans</i>                         |         |           |          |           |         |        |

**Key for heading acronyms and abbreviations:**

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).

Elk Cov = Elk cover.

Mule Deer = Mule deer cover.

Upl Game = upland game cover.

Sm NonG = small non-game cover.

Sm Mam = small mammal cover.



## ETHNOGRAPHIC INFORMATION



Yucca



## ETHNOGRAPHIC INFORMATION

| USDA Symbol* | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                      | Zuni | Navajo | Tewa | Hopi | Cochiti | Isleta | Mescalero Apache | Acoma | Jemez | Other |
|--------------|------------------------------------------------------|-------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| ABCO         | <i>Abies concolor</i>                                | <i>Abies concolor</i>                           |      |        |      |      |         |        |                  | Y     |       |       |
| ABLAL        | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>       | <i>Abies lasiocarpa</i> var. <i>lasiocarpa</i>  |      |        |      |      |         |        |                  |       |       |       |
| ACGLN2       | <i>Acer glabrum</i> var. <i>neomexicanum</i>         | <i>Acer glabrum</i> var. <i>neomexicanum</i>    |      |        |      |      |         | Y      |                  |       |       |       |
| ACNEI2       | <i>Acer negundo</i> var. <i>interius</i>             | <i>Acer negundo</i> var. <i>interius</i>        |      |        |      |      |         |        |                  | Y     |       |       |
| ACMIO        | <i>Achillea millefolium</i> var. <i>occidentalis</i> | <i>Achillea lanulosa</i> subsp. <i>lanulosa</i> | Y    | Y      |      |      | Y       |        |                  |       |       |       |
| ACCO4        | <i>Aconitum columbianum</i>                          | <i>Aconitum columbianum</i>                     |      |        |      |      |         |        |                  |       |       |       |
| ACRUA8       | <i>Actaea rubra</i> ssp. <i>arguta</i>               | <i>Actaea arguta</i> var. <i>viridiflora</i>    |      |        |      |      |         |        |                  |       |       |       |
| AECY         | <i>Aegilops cylindrica</i>                           | <i>Aegilops cylindrica</i>                      |      |        |      |      |         |        |                  |       |       |       |
| AGPA         | <i>Agastache pallidiflora</i>                        | <i>Agastache pallidiflora</i>                   |      |        |      |      |         |        |                  |       |       |       |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris arizonica</i>                       |      |        |      |      |         |        |                  |       |       |       |
| AGAU2        | <i>Agoseris aurantiaca</i>                           | <i>Agoseris aurantiaca</i>                      |      |        |      |      |         |        |                  |       |       |       |
| AGGLG        | <i>Agoseris glauca</i> var. <i>glauca</i>            | <i>Agoseris glauca</i> var. <i>glauca</i>       |      |        |      |      |         |        |                  |       |       |       |
| AGGLL        | <i>Agoseris glauca</i> var. <i>laciniata</i>         | <i>Agoseris glauca</i> var. <i>parviflora</i>   |      |        |      |      |         |        |                  |       |       |       |
| AGGR2        | <i>Agrimonia gryposepala</i>                         | <i>Agrimonia gryposepala</i>                    |      |        |      |      |         |        |                  |       |       |       |
| AGST         | <i>Agrimonia striata</i>                             | <i>Agrimonia striata</i>                        |      |        |      |      |         |        |                  |       |       |       |
| ELLAL        | <i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>    | <i>Agropyron dasystachyum</i>                   |      |        |      |      |         |        |                  |       |       |       |
| AGDE2        | <i>Agropyron desertorum</i>                          | <i>Agropyron desertorum</i>                     |      |        |      |      |         |        |                  |       |       |       |
| ELALL        | <i>Elymus alaskanus</i> ssp. <i>latiglumis</i>       | <i>Agropyron latiglume</i>                      |      |        |      |      |         |        |                  |       |       |       |
| ELPS         | <i>Elymus X pseudorepens</i>                         | <i>Agropyron pseudorepens</i>                   |      |        |      |      |         |        |                  |       |       |       |
| ELRER        | <i>Elytrigia repens</i> var. <i>repens</i>           | <i>Agropyron repens</i>                         |      |        |      |      |         |        |                  |       |       |       |
| PASM         | <i>Pascopyrum smithii</i>                            | <i>Agropyron smithii</i>                        |      |        |      |      |         |        |                  | Y     |       |       |
| ELTRS        | <i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>   | <i>Agropyron subsecundum</i>                    |      |        |      |      |         |        | Y                |       |       |       |
| ELTRT        | <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>  | <i>Agropyron trachycaulum</i>                   |      |        |      |      |         |        |                  |       |       |       |
| AGGI2        | <i>Agrostis gigantea</i>                             | <i>Agrostis alba</i>                            |      |        |      |      |         |        |                  |       |       |       |
| AGEX         | <i>Agrostis exarata</i>                              | <i>Agrostis exarata</i>                         |      |        |      |      |         |        |                  |       |       |       |
| AGID         | <i>Agrostis idahoensis</i>                           | <i>Agrostis idahoensis</i>                      |      |        |      |      |         |        |                  |       |       |       |
| AGPE         | <i>Agrostis perennans</i>                            | <i>Agrostis perennans</i>                       |      |        |      |      |         |        |                  |       |       |       |
| AGSC5        | <i>Agrostis scabra</i>                               | <i>Agrostis scabra</i>                          |      |        |      |      |         |        |                  |       |       |       |
| POVI9        | <i>Polypogon viridis</i>                             | <i>Agrostis semiverticillata</i>                |      |        |      |      |         |        |                  |       |       |       |
| AGST2        | <i>Agrostis stolonifera</i>                          | <i>Agrostis stolonifera</i>                     |      |        |      |      |         |        |                  |       |       |       |
| AIAL         | <i>Ailanthus altissima</i>                           | <i>Ailanthus altissima</i>                      |      |        |      |      |         |        |                  |       |       |       |
| ALCEO        | <i>Allium cernuum</i> var. <i>obtusum</i>            | <i>Allium cernuum</i> var. <i>obtusum</i>       |      |        |      |      |         |        |                  | Y     | Y     |       |
| ALGE         | <i>Allium geyeri</i>                                 | <i>Allium geyeri</i>                            |      |        |      |      |         |        |                  |       |       |       |
| ALMA4        | <i>Allium macropetalum</i>                           | <i>Allium macropetalum</i>                      |      |        |      |      |         |        |                  |       |       |       |

\* A key for heading acronyms and abbreviations is on the last page of this table.

# ETHNOGRAPHIC INFORMATION CON'T

| USDA Symbol            | USDA NRCS PLANTS                                                                       | Martin and Hutchins (1980)                              | Zuni | Navajo | Tewa | Hopi | Cochiti | Isleta | Mescalero Apache | Acoma | Jemez | Other |
|------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| ALTE                   | <i>Allium textile</i>                                                                  | <i>Allium textile</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| ALOB2                  | <i>Alnus oblongifolia</i>                                                              | <i>Alnus oblongifolia</i>                               |      |        |      |      |         |        |                  |       |       |       |
| ALINT                  | <i>Alnus incana</i> ssp. <i>tenuifolia</i>                                             | <i>Alnus tenuifolia</i>                                 | Y    | Y      |      |      |         |        |                  | Y     |       |       |
| ALAE                   | <i>Alopecurus aequalis</i>                                                             | <i>Alopecurus aequalis</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ALRO3                  | <i>Alcea rosea</i>                                                                     | <i>Althaea rosea</i>                                    |      |        |      |      |         |        |                  | Y     |       |       |
| AMAL                   | <i>Amaranthus albus</i>                                                                | <i>Amaranthus albus</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| AMAL;<br>AMBL          | <i>Amaranthus albus</i> ; <i>Amaranthus blitoides</i>                                  | <i>Amaranthus graecizans</i>                            | Y    | Y      |      |      |         |        | Y                |       |       |       |
| AMHY                   | <i>Amaranthus hybridus</i>                                                             | <i>Amaranthus hybridus</i>                              |      |        |      |      |         |        |                  | Y     |       |       |
| AMHY2                  | <i>Amaranthus hypochondriacus</i> L.                                                   | <i>Amaranthus leucocarpus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| AMPA                   | <i>Amaranthus palmeri</i> S. Wats.                                                     | <i>Amaranthus palmeri</i>                               |      | Y      |      |      |         |        |                  |       |       |       |
| AMPO2                  | <i>Amaranthus powellii</i> S. Wats.                                                    | <i>Amaranthus powellii</i>                              |      |        |      |      |         |        |                  |       |       |       |
| AMRE                   | <i>Amaranthus retroflexus</i> L.                                                       | <i>Amaranthus retroflexus</i>                           | Y    | Y      | Y    |      | Y       | Y      |                  | Y     |       |       |
| AMAR;<br>AMBI;<br>AMWA | <i>Amaranthus arenicola</i> ; <i>Amaranthus bigelovii</i> ; <i>Amaranthus watsonii</i> | <i>Amaranthus torreyi</i>                               |      |        |      |      |         |        |                  |       |       |       |
| AMAR2                  | <i>Ambrosia artemisiifolia</i>                                                         | <i>Ambrosia artemisiifolia</i>                          |      |        |      |      |         |        |                  |       |       |       |
| AMPS                   | <i>Ambrosia psilostachya</i>                                                           | <i>Ambrosia psilostachya</i>                            |      |        |      |      |         |        |                  | Y     |       |       |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier bakeri</i>                               |      |        |      |      |         |        |                  |       |       |       |
| AMUTU                  | <i>Amelanchier utahensis</i> ssp. <i>utahensis</i>                                     | <i>Amelanchier oreophila</i>                            |      |        |      |      |         |        |                  |       |       |       |
| AMPU5                  | <i>Amelanchier pumila</i>                                                              | <i>Amelanchier polycarpa</i>                            |      |        |      |      |         |        |                  |       |       |       |
| AMUT                   | <i>Amelanchier utahensis</i>                                                           | <i>Amelanchier utahensis</i>                            |      |        |      |      |         |        |                  |       |       |       |
| AMCA6                  | <i>Amorpha canescens</i>                                                               | <i>Amorpha canescens</i>                                |      |        |      |      |         |        |                  |       |       |       |
| AMFR                   | <i>Amorpha fruticosa</i>                                                               | <i>Amorpha fruticosa</i> var. <i>angustifolia</i>       |      |        |      |      |         |        |                  |       |       |       |
| AMNA                   | <i>Amorpha nana</i>                                                                    | <i>Amorpha nana</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| ANAR                   | <i>Anagallis arvensis</i>                                                              | <i>Anagallis arvensis</i>                               |      |        |      |      |         |        |                  |       |       |       |
| ANMA                   | <i>Anaphalis margaritacea</i>                                                          | <i>Anaphalis margaritacea</i>                           |      |        |      |      |         |        |                  |       |       |       |
| BOBAB                  | <i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>                                  | <i>Andropogon barbinodis</i>                            |      |        |      |      |         |        |                  |       |       |       |
| ANGE                   | <i>Andropogon gerardii</i>                                                             | <i>Andropogon gerardii</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ANHA                   | <i>Andropogon hallii</i>                                                               | <i>Andropogon hallii</i>                                |      |        |      |      |         |        |                  |       |       |       |
| BOSA                   | <i>Bothriochloa saccharoides</i>                                                       | <i>Andropogon saccharoides</i>                          |      |        |      |      |         |        |                  |       |       |       |
| SCSCS2                 | <i>Schizachyrium scoparium</i> ssp. <i>scoparium</i>                                   | <i>Andropogon scoparius</i>                             |      |        |      |      |         |        |                  |       |       |       |
| BOSP3                  | <i>Bothriochloa springfieldii</i>                                                      | <i>Andropogon springfieldii</i>                         |      |        |      |      |         |        |                  |       |       |       |
| BOWR2                  | <i>Bothriochloa wrightii</i>                                                           | <i>Andropogon wrightii</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ANSES4                 | <i>Androsace septentrionalis</i> ssp. <i>subulifera</i>                                | <i>Androsace septentrionalis</i> var. <i>subulifera</i> |      |        |      |      |         |        |                  |       |       |       |
| ANCY                   | <i>Anemone cylindrica</i>                                                              | <i>Anemone cylindrica</i>                               |      |        |      |      |         |        |                  |       |       |       |
| ANPI2                  | <i>Angelica pinnata</i>                                                                | <i>Angelica pinnata</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ANCR2                  | <i>Anoda cristata</i>                                                                  | <i>Anoda cristata</i> var. <i>digitata</i>              |      |        |      |      |         |        |                  |       |       |       |



# ETHNOGRAPHIC INFORMATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                              | Martin and Hutchins (1980)                                    | Zuni | Navajo | Tewa | Hopi | Cochiti | Isleta | Mescalero Apache | Acoma | Jemez | Other |
|-------------|---------------------------------------------------------------|---------------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| ANMA5       | <i>Antennaria marginata</i>                                   | <i>Antennaria marginata</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| ANPA4       | <i>Antennaria parvifolia</i>                                  | <i>Antennaria parvifolia</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| ANRO2       | <i>Antennaria rosea</i>                                       | <i>Antennaria rosea</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| ANRO3       | <i>Antennaria rosulata</i>                                    | <i>Antennaria rosulata</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| APRAH       | <i>Aphanostephus ramosissimus</i> var. <i>humilis</i>         | <i>Aphanostephus arizonicus</i>                               |      |        |      |      |         |        |                  |       |       |       |
| APANA       | <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i> | <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i> |      |        |      |      |         |        |                  |       |       |       |
| APCA        | <i>Apocynum cannabinum</i>                                    | <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>            |      |        |      |      |         |        |                  |       |       |       |
| APFL        | <i>Apocynum X floribundum</i>                                 | <i>Apocynum medium</i> var. <i>A949floribundum</i>            |      |        |      |      |         |        |                  |       |       |       |
| AQCO        | <i>Aquilegia coerulea</i>                                     | <i>Aquilegia caerulea</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| AQCH        | <i>Aquilegia chrysantha</i>                                   | <i>Aquilegia chrysantha</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| AQEL        | <i>Aquilegia elegantula</i>                                   | <i>Aquilegia elegantula</i>                                   |      |        |      |      |         |        |                  | Y     |       |       |
| AQTR        | <i>Aquilegia tritemata</i>                                    | <i>Aquilegia tritemata</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| ARDI2       | <i>Arabis X divaricarpa</i>                                   | <i>Arabis divaricarpa</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| ARDR        | <i>Arabis drummondii</i>                                      | <i>Arabis drummondii</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| ARFEF       | <i>Arabis fendleri</i> var. <i>fendleri</i>                   | <i>Arabis fendleri</i> var. <i>fendleri</i>                   |      |        |      |      |         |        |                  | Y     |       |       |
| ARGL        | <i>Arabis glabra</i>                                          | <i>Arabis glabra</i>                                          |      |        |      |      |         |        |                  |       |       |       |
| ARHIP       | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                  | <i>Arabis hirsuta</i> var. <i>pyncocarpa</i>                  |      |        |      |      |         |        |                  |       |       |       |
| ARHOR       | <i>Arabis holboellii</i> var. <i>retrofracta</i>              | <i>Arabis holboellii</i> var. <i>retrofracta</i>              |      | Y      |      |      |         |        |                  |       |       |       |
| ARPE2       | <i>Arabis perennans</i>                                       | <i>Arabis perennans</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| ARRA        | <i>Aralia racemosa</i>                                        | <i>Aralia racemosa</i>                                        |      |        |      |      |         |        |                  |       |       |       |
| ARDI3       | <i>Arceuthobium divaricatum</i>                               | <i>Arceuthobium divaricatum</i>                               |      |        |      |      |         |        |                  |       |       |       |
| ARDO        | <i>Arceuthobium douglasii</i>                                 | <i>Arceuthobium douglasii</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ARVAC       | <i>Arceuthobium vaginatum</i> ssp. <i>cryptopodum</i>         | <i>Arceuthobium vaginatum</i> subsp. <i>cryptopodum</i>       |      |        |      |      |         |        |                  |       |       |       |
| ARPU5       | <i>Arctostaphylos pungens</i>                                 | <i>Arctostaphylos pungens</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ARUV        | <i>Arctostaphylos uva-ursi</i>                                | <i>Arctostaphylos uva-ursi</i>                                |      |        |      |      |         |        |                  |       | Y     |       |
| ARLAS       | <i>Arenaria lanuginosa</i> ssp. <i>saxosa</i>                 | <i>Arenaria confusa</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| ARFEF3      | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               |      |        |      |      |         |        |                  |       |       |       |
| ARFEB       | <i>Arenaria fendleri</i> var. <i>brevifolia</i>               | <i>Arenaria fendleri</i> var. <i>fendleri</i>                 |      |        |      |      |         |        |                  |       |       |       |
| MOMA3       | <i>Moehringia macrophylla</i>                                 | <i>Arenaria macrophylla</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| ARAD        | <i>Aristida adscensionis</i>                                  | <i>Aristida adscensionis</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| ARAR6       | <i>Aristida arizonica</i>                                     | <i>Aristida arizonica</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| ARHA3       | <i>Aristida havardii</i>                                      | <i>Aristida barbata</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| ARDI5       | <i>Aristida divaricata</i>                                    | <i>Aristida divaricata</i>                                    |      |        |      |      |         |        |                  | Y     |       |       |
| ARPUF       | <i>Aristida purpurea</i> var. <i>fendleriana</i>              | <i>Aristida fendleriana</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| ARPUL       | <i>Aristida purpurea</i> var. <i>longiseta</i>                | <i>Aristida longiseta</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| ARPU9       | <i>Aristida purpurea</i>                                      | <i>Aristida purpurea</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| ARBI3       | <i>Artemisia bigelovii</i>                                    | <i>Artemisia bigelovii</i>                                    |      |        |      |      |         |        |                  |       |       |       |

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|-------------|------------------------------------------------------|--------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| ARCAP2      | <i>Artemisia campestris</i> ssp. <i>pacifica</i>     | <i>Artemisia campestris</i> subsp. <i>pacifica</i>     |      |        |      |      |         |        |                  |       |       |       |
| ARCA13      | <i>Artemisia cana</i>                                | <i>Artemisia cana</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| ARCA14      | <i>Artemisia carruthii</i>                           | <i>Artemisia carruthii</i>                             |      |        |      |      |         |        |                  |       |       |       |
| ARDR4       | <i>Artemisia dracunculus</i>                         | <i>Artemisia dracunculus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| ARFI2       | <i>Artemisia filifolia</i>                           | <i>Artemisia filifolia</i>                             |      | Y      | Y    | Y    |         |        |                  |       |       |       |
| ARFR3       | <i>Artemisia franserioides</i>                       | <i>Artemisia franserioides</i>                         |      |        |      |      |         |        |                  |       |       |       |
| ARFR4       | <i>Artemisia frigida</i>                             | <i>Artemisia frigida</i>                               | Y    | Y      |      | Y    |         |        |                  |       |       |       |
| ARLUA       | <i>Artemisia ludoviciana</i> ssp. <i>albula</i>      | <i>Artemisia ludoviciana</i> subsp. <i>albula</i>      |      |        |      |      |         |        |                  |       |       |       |
| ARLUL2      | <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> | <i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i> |      |        |      |      |         |        |                  |       |       |       |
| ARLUM2      | <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>    | <i>Artemisia ludoviciana</i> subsp. <i>mexicana</i>    |      |        |      |      |         |        |                  |       |       |       |
| ARLUS       | <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>     | <i>Artemisia ludoviciana</i> subsp. <i>redolens</i>    |      |        |      |      |         |        |                  |       |       |       |
| ARLUR       | <i>Artemisia ludoviciana</i> ssp. <i>redolens</i>    | <i>Artemisia ludoviciana</i> subsp. <i>sulcata</i>     |      |        |      |      |         |        |                  |       |       |       |
| ARTR2       | <i>Artemisia tridentata</i>                          | <i>Artemisia tridentata</i>                            |      | Y      |      | Y    |         |        |                  |       |       |       |
| ASASA       | <i>Asclepias asperula</i> ssp. <i>asperula</i>       | <i>Asclepias asperula</i> subsp. <i>asperula</i>       |      |        |      |      |         |        |                  |       |       |       |
| ASEN        | <i>Asclepias engelmanniana</i>                       | <i>Asclepias engelmanniana</i>                         |      |        |      |      |         |        |                  |       |       |       |
| ASIN14      | <i>Asclepias involucrata</i>                         | <i>Asclepias involucrata</i>                           |      |        |      |      |         |        |                  |       |       |       |
| ASMA        | <i>Asclepias macrotis</i>                            | <i>Asclepias macrotis</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ASSP        | <i>Asclepias speciosa</i>                            | <i>Asclepias speciosa</i>                              |      |        |      |      |         |        |                  | Y     |       |       |
| ASSU2       | <i>Asclepias subverticillata</i>                     | <i>Asclepias subverticillata</i>                       |      |        |      |      |         |        |                  |       |       |       |
| ASTUI       | <i>Asclepias tuberosa</i> ssp. <i>interior</i>       | <i>Asclepias tuberosa</i> subsp. <i>terminalis</i>     |      |        |      |      |         |        |                  |       |       | Y     |
| ASVI        | <i>Asclepias viridiflora</i>                         | <i>Asclepias viridiflora</i>                           |      |        |      |      |         |        |                  |       |       |       |
| ASOF        | <i>Asparagus officinalis</i>                         | <i>Asparagus officinalis</i>                           |      |        |      |      |         |        |                  |       |       |       |
| ASTR2       | <i>Asplenium trichomanes</i>                         | <i>Asplenium trichomanes</i>                           |      |        |      |      |         |        |                  |       |       |       |
| ASER3       | <i>Aster ericoides</i>                               | <i>Aster ericoides</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ASFE        | <i>Aster fendleri</i>                                | <i>Aster fendleri</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| ASFO        | <i>Aster foliaceus</i>                               | <i>Aster foliaceus</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ASGLG       | <i>Aster glaucodes</i> var. <i>glaucodes</i>         | <i>Aster glaucodes</i> var. <i>glaucodes</i>           |      |        |      |      |         |        |                  |       |       |       |
| ASLAH2      | <i>Aster lanceolatus</i> ssp. <i>hesperius</i>       | <i>Aster hesperius</i>                                 | Y    |        |      |      |         |        |                  |       |       |       |
| ASLA5       | <i>Aster laevis</i>                                  | <i>Aster laevis</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| ASNO        | <i>Aster novae-angliae</i>                           | <i>Aster novae-angliae</i>                             |      |        |      |      |         |        |                  |       |       |       |
| ASOC        | <i>Aster occidentalis</i>                            | <i>Aster occidentalis</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ALPA14      | <i>Almutaster pauciflorus</i>                        | <i>Aster pauciflorus</i>                               |      |        |      |      |         |        |                  |       |       |       |
| ASPR2       | <i>Aster praealtus</i>                               | <i>Aster praealtus</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ASAG2       | <i>Astragalus agrestis</i>                           | <i>Astragalus agrestis</i>                             |      |        |      |      |         |        |                  |       |       |       |
| ASAM5       | <i>Astragalus amphioxys</i>                          | <i>Astragalus amphioxys</i>                            |      |        |      |      |         |        |                  |       |       |       |
| ASBI2       | <i>Astragalus bisulcatus</i>                         | <i>Astragalus bisulcatus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| ASCR2       | <i>Astragalus crassicaupus</i>                       | <i>Astragalus crassicaupus</i>                         |      |        |      |      |         |        |                  |       |       |       |
| ASEM2       | <i>Astragalus emoryanus</i>                          | <i>Astragalus emoryanus</i>                            |      |        |      |      |         |        |                  |       |       |       |
| ASFL2       | <i>Astragalus flexuosus</i>                          | <i>Astragalus flexuosus</i>                            |      |        |      |      |         |        |                  |       |       |       |

# ETHNOGRAPHIC INFORMATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                            | Martin and Hutchins (1980)                                | Zuni | Navajo | Tewa | Hopi | Cochiti | Isleta | Mescalero Apache | Acoma | Jemez | Other |
|-------------|-------------------------------------------------------------|-----------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| ASGR3       | <i>Astragalus gracilis</i>                                  | <i>Astragalus gracilis</i>                                |      |        |      |      |         |        |                  |       |       |       |
| ASHU2       | <i>Astragalus humistratus</i>                               | <i>Astragalus humistratus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| ASKEN       | <i>Astragalus kentrophyta</i> var. <i>neomexicanus</i>      | <i>Astragalus kentrophyta</i> var. <i>neomexicana</i>     |      |        |      |      |         |        |                  |       |       |       |
| ASLE8       | <i>Astragalus lentiginosus</i>                              | <i>Astragalus lentiginosus</i>                            |      |        |      |      |         |        |                  |       |       |       |
| ASLO3       | <i>Astragalus lonchocarpus</i>                              | <i>Astragalus lonchocarpus</i>                            |      |        |      |      |         |        |                  |       |       |       |
| ASMIM5      | <i>Astragalus missouriensis</i> var. <i>missouriensis</i>   | <i>Astragalus missouriensis</i> var. <i>missouriensis</i> |      |        |      |      |         |        |                  |       |       |       |
| ASMO7       | <i>Astragalus mollissimus</i>                               | <i>Astragalus mollissimus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| ASPR5       | <i>Astragalus praelongus</i>                                | <i>Astragalus praelongus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ASSH3       | <i>Astragalus shortianus</i>                                | <i>Astragalus shortianus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ATFIC       | <i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>         | <i>Athyrium filix-femina</i> var. <i>californicum</i>     |      |        |      |      |         |        |                  |       |       |       |
| ATCA2       | <i>Atriplex canescens</i>                                   | <i>Atriplex canescens</i>                                 | Y    | Y      |      | Y    | Y       | Y      |                  |       | Y     | Y     |
| ATPA4       | <i>Atriplex patula</i>                                      | <i>Atriplex patula</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| BABI3       | <i>Bahia biternata</i>                                      | <i>Bahia biternata</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| BADI        | <i>Bahia dissecta</i>                                       | <i>Bahia dissecta</i>                                     |      |        |      |      |         |        |                  | Y     |       |       |
| SCMU6       | <i>Schkuhria multiflora</i>                                 | <i>Bahia neomexicana</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| PLINO       | <i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i> | <i>Bahia oblongifolia</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| BAMU        | <i>Baileya multiradiata</i>                                 | <i>Baileya multiradiata</i>                               |      |        |      |      |         |        |                  | Y     | Y     |       |
| BAHY        | <i>Bassia hyssopifolia</i>                                  | <i>Bassia hyssopifolia</i>                                |      |        |      |      |         |        |                  |       |       |       |
| BESY        | <i>Beckmannia syzigachne</i>                                | <i>Beckmannia syzigachne</i>                              |      |        |      |      |         |        |                  |       |       |       |
| BEFE        | <i>Berberis fendleri</i>                                    | <i>Berberis fendleri</i>                                  |      |        |      |      |         |        |                  |       | Y     |       |
| MARE11      | <i>Mahonia repens</i>                                       | <i>Berberis repens</i>                                    |      | Y      |      |      |         |        |                  |       |       |       |
| BELY        | <i>Berlandiera lyrata</i>                                   | <i>Berlandiera lyrata</i>                                 |      |        |      |      |         |        |                  | Y     |       |       |
| BEER        | <i>Berula erecta</i>                                        | <i>Berula erecta</i>                                      | Y    |        |      |      |         |        |                  |       |       |       |
| BEPL        | <i>Besseyia plantaginea</i>                                 | <i>Besseyia plantaginea</i>                               |      |        |      |      |         |        |                  |       |       |       |
| BEOC2       | <i>Betula occidentalis</i>                                  | <i>Betula occidentalis</i>                                |      |        |      |      |         |        |                  |       |       |       |
| BIBI        | <i>Bidens bigelovii</i>                                     | <i>Bidens bigelovii</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| BIBI7       | <i>Bidens bipinnata</i>                                     | <i>Bidens bipinnata</i> var. <i>bipinnata</i>             |      |        |      |      |         |        |                  |       |       |       |
| BICE        | <i>Bidens cernua</i>                                        | <i>Bidens cernua</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| BITR        | <i>Bidens tripartita</i>                                    | <i>Bidens cosmosa</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| BIFR        | <i>Bidens frondosa</i>                                      | <i>Bidens frondosa</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| BLTR        | <i>Blepharoneuron tricholepis</i>                           | <i>Blepharoneuron tricholepis</i>                         |      |        |      |      |         |        |                  |       |       |       |
| BOCO2       | <i>Boerhavia coulteri</i>                                   | <i>Boerhaavia coulteri</i>                                |      |        |      |      |         |        |                  |       |       |       |
| BOMU        | <i>Botrychium multifidum</i>                                | <i>Botrychium multifidum</i> subsp. <i>coulteri</i>       |      |        |      |      |         |        |                  |       |       |       |
| BOAR        | <i>Bouteloua aristoides</i>                                 | <i>Bouteloua aristoides</i>                               |      |        |      |      |         |        |                  |       |       |       |
| BOBA2       | <i>Bouteloua barbata</i>                                    | <i>Bouteloua barbata</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| BOCU        | <i>Bouteloua curtipendula</i>                               | <i>Bouteloua curtipendula</i>                             |      |        | Y    |      | Y       |        |                  |       |       |       |
| BOER4       | <i>Bouteloua eriopoda</i>                                   | <i>Bouteloua eriopoda</i>                                 |      |        | Y    |      |         |        |                  |       |       |       |

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|-------------|---------------------------------|----------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| BOGR2       | <i>Bouteloua gracilis</i>       | <i>Bouteloua gracilis</i>        | Y    | Y      |      |      |         |        |                  |       |       |       |
| BOHI2       | <i>Bouteloua hirsuta</i>        | <i>Bouteloua hirsuta</i>         |      | Y      |      |      |         |        |                  |       |       |       |
| BOSI2       | <i>Bouteloua simplex</i>        | <i>Bouteloua simplex</i>         |      |        |      |      |         |        |                  |       |       |       |
| BRJU        | <i>Brassica juncea</i>          | <i>Brassica juncea</i>           |      |        |      |      |         |        |                  |       |       |       |
| BRNI        | <i>Brassica nigra</i>           | <i>Brassica nigra</i>            |      |        |      |      |         |        |                  |       |       |       |
| BRBE        | <i>Brickellia betonicifolia</i> | <i>Brickellia betonicaefolia</i> |      |        |      |      |         |        |                  |       |       |       |
| BRBR2       | <i>Brickellia brachyphylla</i>  | <i>Brickellia brachyphylla</i>   |      |        |      |      |         |        |                  |       |       |       |
| BRCA3       | <i>Brickellia californica</i>   | <i>Brickellia californica</i>    |      |        |      |      |         |        |                  |       |       |       |
| BRFE        | <i>Brickellia fendleri</i>      | <i>Brickellia fendleri</i>       |      |        |      |      |         |        |                  |       |       |       |
| BRGR        | <i>Brickellia grandiflora</i>   | <i>Brickellia grandiflora</i>    |      |        |      |      |         |        |                  | Y     |       |       |
| BRAN        | <i>Bromus anomalus</i>          | <i>Bromus anomalus</i>           |      |        |      |      |         |        |                  |       |       |       |
| BRCA6       | <i>Bromus catharticus</i>       | <i>Bromus catharticus</i>        |      |        |      |      |         |        |                  |       |       |       |
| BRCI2       | <i>Bromus ciliatus</i>          | <i>Bromus ciliatus</i>           |      |        |      |      |         |        |                  |       |       |       |
| BRFR2       | <i>Bromus frondosus</i>         | <i>Bromus frondosus</i>          |      |        |      |      |         |        |                  |       |       |       |
| BRIN2       | <i>Bromus inermis</i>           | <i>Bromus inermis</i>            |      |        |      |      |         |        |                  |       |       |       |
| BRJA        | <i>Bromus japonicus</i>         | <i>Bromus japonicus</i>          |      |        |      |      |         |        |                  |       |       |       |
| BRLA6       | <i>Bromus lanatipes</i>         | <i>Bromus lanatipes</i>          |      |        |      |      |         |        |                  |       |       |       |
| BRMA4       | <i>Bromus marginatus</i>        | <i>Bromus marginatus</i>         |      |        |      |      |         |        |                  | Y     |       |       |
| BRKA2       | <i>Bromus kalmii</i>            | <i>Bromus purgans</i>            |      |        |      |      |         |        |                  |       |       |       |
| BRTE        | <i>Bromus tectorum</i>          | <i>Bromus tectorum</i>           |      |        |      |      |         |        |                  |       |       |       |
| BUDA        | <i>Buchloe dactyloides</i>      | <i>Buchloe dactyloides</i>       |      |        |      |      |         |        |                  |       |       |       |
| CAGU        | <i>Calochortus gunnisonii</i>   | <i>Calochortus gunnisonii</i>    |      |        |      |      |         |        |                  | Y     |       |       |
| CANU3       | <i>Calochortus nuttallii</i>    | <i>Calochortus nuttallii</i>     |      |        |      |      |         |        |                  |       |       |       |
| CAHA14      | <i>Calylophus hartwegii</i>     | <i>Calylophus hartwegii</i>      |      |        |      |      |         |        |                  |       |       |       |
| CABU        | <i>Calypso bulbosa</i>          | <i>Calypso bulbosa</i>           |      |        |      |      |         |        |                  |       |       |       |
| CAMI2       | <i>Camelina microcarpa</i>      | <i>Camelina microcarpa</i>       |      |        |      |      |         |        | Y                |       |       |       |
| CAPA10      | <i>Campanula parryi</i>         | <i>Campanula parryi</i>          | Y    | Y      |      |      |         |        |                  |       |       |       |
| CARO2       | <i>Campanula rotundifolia</i>   | <i>Campanula rotundifolia</i>    |      |        |      |      |         |        |                  |       |       |       |
| CABU2       | <i>Capsella bursa-pastoris</i>  | <i>Capsella bursa-pastoris</i>   |      |        |      |      |         |        | Y                |       |       |       |
| CACO6       | <i>Cardamine cordifolia</i>     | <i>Cardamine cordifolia</i>      |      |        |      |      |         |        |                  |       |       |       |
| CADR        | <i>Cardaria draba</i>           | <i>Cardaria draba</i>            |      |        |      |      |         |        |                  |       |       |       |
| CANU4       | <i>Carduus nutans</i>           | <i>Carduus nutans</i>            |      |        |      |      |         |        |                  |       |       |       |
| CAAQ        | <i>Carex aquatilis</i>          | <i>Carex aquatilis</i>           |      |        |      |      |         |        |                  |       |       |       |
| CABE3       | <i>Carex bella</i>              | <i>Carex bella</i>               |      |        |      |      |         |        |                  |       |       |       |
| CABO2       | <i>Carex bolanderi</i>          | <i>Carex bolanderi</i>           |      |        |      |      |         |        |                  |       |       |       |
| CABR10      | <i>Carex brevior</i>            | <i>Carex brevior</i>             |      |        |      |      |         |        |                  |       |       |       |
| CACA11      | <i>Carex canescens</i>          | <i>Carex canescens</i>           |      |        |      |      |         |        |                  |       |       |       |
| CADO2       | <i>Carex douglasii</i>          | <i>Carex douglasii</i>           |      |        |      |      |         |        |                  |       |       |       |
| CADU6       | <i>Carex duriuscula</i>         | <i>Carex eleocharis</i>          |      |        |      |      |         |        |                  |       |       |       |

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|-------------|-------------------------------------------------------|-------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| CAMI7       | <i>Carex microptera</i>                               | <i>Carex festivella</i>                               |      |        |      |      |         |        |                  |       |       |       |
| CAFO3       | <i>Carex foenea</i>                                   | <i>Carex foenea</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| CAGE        | <i>Carex geophila</i>                                 | <i>Carex geophila</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| CAHY4       | <i>Carex hystericina</i>                              | <i>Carex hystericina</i>                              |      |        |      |      |         |        |                  |       |       |       |
| CAIN11      | <i>Carex interior</i>                                 | <i>Carex interior</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| CALA30      | <i>Carex lanuginosa</i>                               | <i>Carex lanuginosa</i>                               |      |        |      |      |         |        |                  |       |       |       |
| CANE2       | <i>Carex nebraskensis</i>                             | <i>Carex nebraskensis</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CAOC2       | <i>Carex occidentalis</i>                             | <i>Carex occidentalis</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CAPR5       | <i>Carex praegracilis</i>                             | <i>Carex praegracilis</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CASC11      | <i>Carex scoparia</i>                                 | <i>Carex scoparia</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| CAST5       | <i>Carex stipata</i>                                  | <i>Carex stipata</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| CAXE        | <i>Carex xerantica</i>                                | <i>Carex xerantica</i>                                |      |        |      |      |         |        |                  |       |       |       |
| CAMIM5      | <i>Castilleja miniata</i> ssp. <i>miniata</i>         | <i>Castilleja confusa</i>                             |      |        |      |      |         |        |                  | Y     |       |       |
| CAIN14      | <i>Castilleja integra</i>                             | <i>Castilleja integra</i>                             |      | Y      |      |      |         |        |                  | Y     |       |       |
| CALI4       | <i>Castilleja linariifolia</i>                        | <i>Castilleja linariaefolia</i>                       |      |        |      | Y    |         |        |                  |       |       |       |
| CALI5       | <i>Castilleja lineata</i>                             | <i>Castilleja lineata</i>                             |      | Y      |      |      |         |        |                  |       |       |       |
| CAMI12      | <i>Castilleja miniata</i>                             | <i>Castilleja miniata</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CAMI13      | <i>Castilleja minor</i>                               | <i>Castilleja minor</i>                               |      |        |      |      |         |        |                  |       |       |       |
| CARH4       | <i>Castilleja rhexiifolia</i>                         | <i>Castilleja rhexiifolia</i>                         |      |        |      |      |         |        |                  |       |       |       |
| CEFE        | <i>Ceanothus fendleri</i>                             | <i>Ceanothus fendleri</i>                             |      | Y      |      |      |         |        |                  | Y     |       |       |
| CELAR       | <i>Celtis laevigata</i> var. <i>reticulata</i>        | <i>Celtis reticulata</i>                              |      |        |      |      |         |        |                  |       |       |       |
| CEEC        | <i>Cenchrus echinatus</i>                             | <i>Cenchrus echinatus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CEIN4       | <i>Cenchrus incertus</i>                              | <i>Cenchrus pauciflorus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| CECA3       | <i>Centaurium calycosum</i>                           | <i>Centaurium calycosum</i>                           |      |        |      |      |         |        |                  |       |       |       |
| CEAR4       | <i>Cerastium arvense</i>                              | <i>Cerastium arvense</i>                              | Y    |        |      |      |         |        |                  |       |       |       |
| CEBR3       | <i>Cerastium brachypodium</i>                         | <i>Cerastium brachypodium</i>                         |      |        |      |      |         |        |                  |       |       |       |
| CEFOV2      | <i>Cerastium fontanum</i> ssp. <i>vulgare</i>         | <i>Cerastium vulgatum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CEMOM4      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      | <i>Cercocarpus montanus</i> var. <i>montanus</i>      |      | Y      |      |      |         |        |                  | Y     |       |       |
| CEMOP       | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> | <i>Cercocarpus montanus</i> var. <i>paucidentatus</i> |      | Y      |      |      |         |        |                  |       |       |       |
| CHCO        | <i>Chamaesaracha coniodes</i>                         | <i>Chamaesaracha coniodes</i>                         |      |        |      |      |         |        |                  |       |       |       |
| CHCO2       | <i>Chamaesaracha coronopus</i>                        | <i>Chamaesaracha coronopus</i>                        |      |        |      |      |         |        |                  |       |       |       |
| CHFE        | <i>Cheilanthes feei</i>                               | <i>Cheilanthes feei</i>                               |      |        |      |      |         |        |                  |       |       |       |
| CHFE2       | <i>Cheilanthes fendleri</i>                           | <i>Cheilanthes fendleri</i>                           |      |        |      |      |         |        |                  |       |       |       |
| CHTO2       | <i>Cheilanthes tomentosa</i>                          | <i>Cheilanthes tomentosa</i>                          |      |        |      |      |         |        |                  |       |       |       |
| CHEA        | <i>Cheilanthes eatonii</i>                            | <i>Cheilanthes eatonii</i>                            |      |        |      |      |         |        |                  |       |       |       |
| CHAL6       | <i>Chenopodium albescens</i>                          | <i>Chenopodium albescens</i>                          |      |        |      |      |         |        |                  |       |       |       |
| CHAL7       | <i>Chenopodium album</i>                              | <i>Chenopodium album</i>                              |      |        |      |      |         |        | Y                |       |       |       |
| CHBE4       | <i>Chenopodium berlandieri</i>                        | <i>Chenopodium berlandieri</i>                        |      |        |      |      |         |        |                  |       |       |       |
| CHCA4       | <i>Chenopodium capitatum</i>                          | <i>Chenopodium capitatum</i>                          |      |        |      |      |         |        |                  |       |       |       |

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|-------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| CHCY        | <i>Chenopodium cycloides</i>                                                           | <i>Chenopodium cycloides</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| CHDE        | <i>Chenopodium desiccatum</i>                                                          | <i>Chenopodium desiccatum</i> var. <i>desiccatum</i>           |      |        |      |      |         |        |                  |       |       |       |
| CHPR5       | <i>Chenopodium pratericola</i>                                                         | <i>Chenopodium desiccatum</i> var. <i>leptophylloides</i>      |      |        |      |      |         |        |                  |       |       |       |
| CHFR3       | <i>Chenopodium fremontii</i>                                                           | <i>Chenopodium fremontii</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| CHSI2       | <i>Chenopodium simplex</i>                                                             | <i>Chenopodium gigantospermum</i>                              |      |        |      |      |         |        |                  |       |       |       |
| CHGL3       | <i>Chenopodium glaucum</i>                                                             | <i>Chenopodium glaucum</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| CHGR2       | <i>Chenopodium graveolens</i>                                                          | <i>Chenopodium graveolens</i> var. <i>neomexicanum</i>         |      |        |      |      |         |        |                  |       |       |       |
| CHIN2       | <i>Chenopodium incanum</i>                                                             | <i>Chenopodium incanum</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| CHLE4       | <i>Chenopodium leptophyllum</i>                                                        | <i>Chenopodium leptophyllum</i>                                | Y    | Y      |      |      |         |        |                  |       |       |       |
| CHRU        | <i>Chenopodium rubrum</i>                                                              | <i>Chenopodium rubrum</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| CHWA        | <i>Chenopodium watsonii</i>                                                            | <i>Chenopodium watsonii</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| CHUM        | <i>Chimaphila umbellata</i>                                                            | <i>Chimaphila umbellata</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| CHVI4       | <i>Chloris virgata</i>                                                                 | <i>Chloris virgata</i>                                         |      |        |      |      |         |        |                  |       |       |       |
| HEVIV       | <i>Heterotheca villosa</i> var. <i>villosa</i>                                         | <i>Chrysopsis villosa</i>                                      |      |        |      | Y    |         |        |                  |       |       |       |
| ERNAB2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelovii</i>                  | <i>Chrysothamnus nauseosus</i> subsp. <i>bigelovii</i>         |      | Y      |      |      |         |        |                  |       |       |       |
| ERNAL2      | <i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>latisquamea</i>                | <i>Chrysothamnus nauseosus</i> subsp. <i>latisquameus</i>      |      |        |      |      |         |        |                  |       |       |       |
| ERPAA4      | <i>Ericameria parryi</i> var. <i>attenuata</i>                                         | <i>Chrysothamnus parryi</i> subsp. <i>attenuatus</i>           |      |        |      |      |         |        |                  |       |       |       |
| ERPAH       | <i>Ericameria parryi</i> var. <i>howardii</i>                                          | <i>Chrysothamnus parryi</i> subsp. <i>howardii</i>             |      |        |      |      |         |        |                  |       |       |       |
| CHVIV4      | <i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i> | <i>Chrysothamnus viscidiflorus</i> subsp. <i>viscidiflorus</i> |      | Y      |      |      |         |        |                  |       |       |       |
| CIDO        | <i>Cicuta douglasii</i>                                                                | <i>Cicuta douglasii</i>                                        |      |        |      |      |         |        |                  |       |       |       |
| CIAL        | <i>Circaea alpina</i>                                                                  | <i>Circaea alpina</i>                                          |      |        |      |      |         |        |                  |       |       |       |
| CINE        | <i>Cirsium neomexicanum</i>                                                            | <i>Cirsium neomexicanum</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| CIOC2       | <i>Cirsium ochrocentrum</i>                                                            | <i>Cirsium ochrocentrum</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| CIPA5       | <i>Cirsium pallidum</i>                                                                | <i>Cirsium pallidum</i>                                        |      |        |      |      |         |        |                  | Y     |       |       |
| CIPA        | <i>Cirsium parryi</i>                                                                  | <i>Cirsium parryi</i>                                          |      |        |      |      |         |        |                  |       |       |       |
| CICA10      | <i>Cirsium calcareum</i>                                                               | <i>Cirsium pulchellum</i>                                      |      |        |      | Y    |         |        |                  |       |       |       |
| CIUN        | <i>Cirsium undulatum</i>                                                               | <i>Cirsium undulatum</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| CIVU        | <i>Cirsium vulgare</i>                                                                 | <i>Cirsium vulgare</i>                                         |      |        |      |      |         |        |                  |       |       |       |
| CLDR        | <i>Clematis drummondii</i>                                                             | <i>Clematis drummondii</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| CLLI2       | <i>Clematis ligusticifolia</i>                                                         | <i>Clematis ligusticifolia</i>                                 |      |        |      | Y    |         |        |                  |       | Y     |       |
| CLCOC2      | <i>Clematis columbiana</i> var. <i>columbiana</i>                                      | <i>Clematis pseudoalpina</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| CLSE        | <i>Cleome serrulata</i>                                                                | <i>Cleome serrulata</i>                                        | Y    | Y      | Y    | Y    | Y       | Y      |                  | Y     | Y     |       |
| CLVU        | <i>Clinopodium vulgare</i>                                                             | <i>Clinopodium vulgare</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| COLI2       | <i>Collomia linearis</i>                                                               | <i>Collomia linearis</i>                                       |      |        |      |      |         |        |                  |       |       |       |

# ETHNOGRAPHIC INFORMATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                 | Martin and Hutchins (1980)                            | Zuni | Navajo | Tewa | Hopi | Cochiti | Isleta | Mescalero Apache | Acoma | Jemez | Other |
|-------------|--------------------------------------------------|-------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| COUMP       | <i>Comandra umbellata</i> ssp. <i>pallida</i>    | <i>Comandra pallida</i>                               |      |        |      |      |         |        |                  |       |       |       |
| CODI4       | <i>Commelina dianthifolia</i>                    | <i>Commelina dianthifolia</i>                         |      |        |      |      |         |        |                  |       |       |       |
| COALM       | <i>Conopholis alpina</i> var. <i>mexicana</i>    | <i>Conopholis mexicana</i>                            |      |        |      |      |         |        |                  | Y     |       |       |
| COAR4       | <i>Convolvulus arvensis</i>                      | <i>Convolvulus arvensis</i>                           |      |        |      |      |         |        |                  |       |       |       |
| CASES       | <i>Calystegia sepium</i> ssp. <i>sepium</i>      | <i>Convolvulus sepium</i>                             |      |        |      |      |         |        |                  |       |       |       |
| COCA5       | <i>Conyza canadensis</i>                         | <i>Conyza canadensis</i>                              |      |        |      |      |         |        |                  |       |       |       |
| COMA4       | <i>Corallorrhiza maculata</i>                    | <i>Corallorrhiza maculata</i>                         |      |        |      |      |         |        |                  |       |       |       |
| COST        | <i>Corallorrhiza striata</i>                     | <i>Corallorrhiza striata</i>                          |      |        |      |      |         |        |                  |       |       |       |
| COWR2       | <i>Cordylanthus wrightii</i>                     | <i>Cordylanthus wrightii</i>                          |      |        |      |      |         |        |                  |       |       |       |
| COTIT       | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i> | <i>Coreopsis cardaminefolia</i>                       |      |        |      |      |         |        |                  |       |       |       |
| COTI3       | <i>Coreopsis tinctoria</i>                       | <i>Coreopsis tinctoria</i>                            | Y    |        |      |      |         |        |                  |       |       |       |
| COSA        | <i>Coriandrum sativum</i>                        | <i>Coriandrum sativum</i>                             | Y    |        |      | Y    |         |        |                  |       |       |       |
| COSES       | <i>Cornus sericea</i> ssp. <i>sericea</i>        | <i>Cornus stolonifera</i>                             |      |        |      |      |         |        |                  |       |       |       |
| COAU2       | <i>Corydalis aurea</i>                           | <i>Corydalis aurea</i>                                |      |        |      |      |         |        |                  |       |       |       |
| ESVIV       | <i>Escobaria vivipara</i> var. <i>vivipara</i>   | <i>Coryphantha vivipara</i>                           |      |        |      |      |         |        |                  |       |       |       |
| COPA12      | <i>Cosmos parviflorus</i>                        | <i>Cosmos parviflorus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CRER        | <i>Crataegus erythropoda</i>                     | <i>Crataegus erythropoda</i>                          |      |        |      |      |         |        |                  |       |       |       |
| CRTE4       | <i>Croton texensis</i>                           | <i>Croton texensis</i>                                | Y    |        |      |      | Y       | Y      |                  | Y     | Y     |       |
| CRFE3       | <i>Cryptantha fendleri</i>                       | <i>Cryptantha fendleri</i>                            |      |        |      |      |         |        |                  |       | Y     |       |
| CRCIJ       | <i>Cryptantha cinerea</i> var. <i>jamesii</i>    | <i>Cryptantha jamesii</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CRMI5       | <i>Cryptantha minima</i>                         | <i>Cryptantha minima</i>                              |      |        |      |      |         |        |                  |       |       |       |
| CRAC3       | <i>Cryptogramma acrostichoides</i>               | <i>Cryptogramma crispa</i> var. <i>acrostichoides</i> |      |        |      |      |         |        |                  |       |       |       |
| CUFO        | <i>Cucurbita foetidissima</i>                    | <i>Cucurbita foetidissima</i>                         |      |        |      |      |         |        |                  | Y     |       |       |
| CUPEP2      | <i>Cuscuta pentagona</i> var. <i>pentagona</i>   | <i>Cuscuta campestris</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CUUM        | <i>Cuscuta umbellata</i>                         | <i>Cuscuta umbellata</i>                              |      |        |      |      |         |        |                  |       |       |       |
| CYBU        | <i>Cymopterus bulbosus</i>                       | <i>Cymopterus bulbosus</i>                            |      |        |      |      |         |        |                  |       |       |       |
| CYDA        | <i>Cynodon dactylon</i>                          | <i>Cynodon dactylon</i>                               |      |        |      |      |         |        |                  |       |       |       |
| CYEC        | <i>Cynosurus echinatus</i>                       | <i>Cynosurus echinatus</i>                            |      |        |      |      |         |        |                  |       |       |       |
| CYSQ        | <i>Cyperus squarrosus</i>                        | <i>Cyperus aristatus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| MISE3       | <i>Mitreola sessilifolia</i>                     | <i>Cyperus esculentus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| CYFE2       | <i>Cyperus fendlerianus</i>                      | <i>Cyperus fendlerianus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| CYBI6       | <i>Cyperus bipartitus</i>                        | <i>Cyperus rivularis</i>                              |      |        |      |      |         |        |                  |       |       |       |
| CYPU10      | <i>Cypripedium pubescens</i>                     | <i>Cypripedium calceolus</i> var. <i>pubescens</i>    |      |        |      |      |         |        |                  |       |       |       |
| CYFR2       | <i>Cystopteris fragilis</i>                      | <i>Cystopteris fragilis</i>                           |      |        |      |      |         |        |                  |       | Y     |       |
| DAGL        | <i>Dactylis glomerata</i>                        | <i>Dactylis glomerata</i>                             |      |        |      |      |         |        |                  |       |       |       |
| DABR        | <i>Dalea brachystachya</i>                       | <i>Dalea brachystachys</i>                            |      |        |      |      |         |        |                  |       |       |       |
| DAPO3       | <i>Dalea polygonoides</i>                        | <i>Dalea polygonoides</i>                             |      |        |      |      |         |        |                  |       |       |       |
| DALAT       | <i>Dalea lanata</i> var. <i>terminalis</i>       | <i>Dalea terminalis</i>                               |      |        |      |      |         |        |                  |       |       |       |
| DAIN        | <i>Danthonia intermedia</i>                      | <i>Danthonia intermedia</i>                           |      |        |      |      |         |        |                  |       |       |       |

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|-------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| DAPA2       | <i>Danthonia parryi</i>                                         | <i>Danthonia parryi</i>                                         |      |        |      |      |         |        |                  |       |       |       |
| DASP2       | <i>Danthonia spicata</i>                                        | <i>Danthonia spicata</i>                                        |      |        |      |      |         |        |                  |       |       |       |
| DAWR2       | <i>Datura wrightii</i>                                          | <i>Datura meteloides</i>                                        | Y    | Y      |      |      |         |        |                  | Y     |       |       |
| DEOC        | <i>Delphinium X occidentale</i>                                 | <i>Delphinium occidentale</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| DEWO        | <i>Delphinium wootonii</i>                                      | <i>Delphinium virescens</i> subsp. <i>wootonii</i>              |      |        |      |      |         |        |                  |       |       |       |
| DECE        | <i>Deschampsia cespitosa</i>                                    | <i>Deschampsia caespitosa</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| DEOBO       | <i>Descurainia obtusa</i> ssp. <i>obtusa</i>                    | <i>Descurainia obtusa</i> subsp. <i>obtusa</i>                  |      |        |      |      |         |        |                  |       |       |       |
| DEPI        | <i>Descurainia pinnata</i>                                      | <i>Descurainia pinnata</i>                                      |      |        |      | Y    |         |        |                  |       |       |       |
| DEINI       | <i>Descurainia incana</i> ssp. <i>incana</i>                    | <i>Descurainia richardsonii</i>                                 |      |        |      |      |         |        | Y                |       |       |       |
| DEINI2      | <i>Descurainia incana</i> ssp. <i>incisa</i>                    | <i>Descurainia richardsonii</i> subsp. <i>incisa</i>            |      |        |      |      |         |        |                  |       |       |       |
| DEINP       | <i>Descurainia incana</i> ssp. <i>procera</i>                   | <i>Descurainia richardsonii</i> subsp. <i>procera</i>           |      |        |      |      |         |        |                  |       |       |       |
| DESO2       | <i>Descurainia sophia</i>                                       | <i>Descurainia sophia</i>                                       |      |        | Y    |      |         |        |                  |       |       |       |
| DEINV       | <i>Descurainia incana</i> ssp. <i>viscosa</i>                   | <i>Descurainia richardsonii</i> subsp. <i>viscosa</i>           |      |        |      |      |         |        |                  |       |       |       |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis spicata</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| DISP        | <i>Distichlis spicata</i>                                       | <i>Distichlis stricta</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| DIWI2       | <i>Dimorphocarpa wislizeni</i>                                  | <i>Dithyrea wislizenii</i>                                      | Y    |        |      | Y    |         |        |                  | Y     |       |       |
| DOAL        | <i>Dodecatheon alpinum</i>                                      | <i>Dodecatheon alpinum</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| DOPU        | <i>Dodecatheon pulchellum</i>                                   | <i>Dodecatheon pulchellum</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| DRAU        | <i>Draba aurea</i>                                              | <i>Draba aurea</i> var. <i>aurea</i>                            |      |        |      |      |         |        |                  |       |       |       |
| DRHEH       | <i>Draba helleriana</i> var. <i>helleriana</i>                  | <i>Draba helleriana</i> var. <i>helleriana</i>                  |      |        |      |      |         |        |                  | Y     |       |       |
| DRRE        | <i>Draba rectifruta</i>                                         | <i>Draba rectifruta</i>                                         |      |        |      |      |         |        |                  |       |       |       |
| DRRE2       | <i>Draba reptans</i>                                            | <i>Draba reptans</i>                                            |      |        |      |      |         |        |                  |       |       |       |
| DRSP        | <i>Draba spectabilis</i>                                        | <i>Draba spectabilis</i>                                        |      |        |      |      |         |        |                  |       |       |       |
| DRFI2       | <i>Dryopteris filix-mas</i>                                     | <i>Dryopteris filix-mas</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| DYPA        | <i>Dyssodia papposa</i>                                         | <i>Dyssodia papposa</i>                                         |      |        |      |      |         |        |                  |       |       |       |
| THPEB       | <i>Thymophylla pentachaeta</i> var. <i>belenidium</i>           | <i>Dyssodia thurberi</i>                                        |      |        |      |      |         |        |                  |       |       |       |
| ECFE        | <i>Echinocereus fendleri</i>                                    | <i>Echinocereus fendleri</i>                                    |      |        |      |      |         |        |                  |       |       | Y     |
| ECTRT       | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> | <i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i> |      | Y      |      |      |         |        |                  |       |       |       |
| ECCOC       | <i>Echinocereus coccineus</i> var. <i>coccineus</i>             | <i>Echinocereus triglochidiatus</i> var. <i>melanacanthus</i>   |      |        |      |      |         |        |                  |       |       |       |
| ECVIV       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       | <i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>       |      |        |      |      |         |        |                  |       |       |       |
| ECCR        | <i>Echinochloa crus-galli</i>                                   | <i>Echinochloa crusgalli</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| ELAN        | <i>Elaeagnus angustifolia</i>                                   | <i>Elaeagnus angustifolia</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| ELPA3       | <i>Eleocharis palustris</i>                                     | <i>Eleocharis macrostachya</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| ELCA4       | <i>Elymus canadensis</i>                                        | <i>Elymus canadensis</i>                                        |      |        |      |      |         |        |                  |       |       |       |
| ELGL        | <i>Elymus glaucus</i>                                           | <i>Elymus glaucus</i>                                           |      |        |      |      |         |        |                  |       |       |       |
| ELVI3       | <i>Elymus virginicus</i>                                        | <i>Elymus virginicus</i>                                        |      |        |      |      |         |        |                  |       |       |       |
| EPTO        | <i>Ephedra torreyana</i>                                        | <i>Ephedra torreyana</i>                                        |      |        |      | Y    |         | Y      |                  | Y     |       |       |



# ETHNOGRAPHIC INFORMATION CON'T

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|-------------|---------------------------------------------------------|---------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| EPVIV       | <i>Ephedra viridis</i> var. <i>viridis</i>              | <i>Ephedra viridis</i> var. <i>viridis</i>              |      | Y      |      | Y    |         |        |                  |       |       |       |
| EPAN2       | <i>Epilobium angustifolium</i>                          | <i>Epilobium angustifolium</i>                          |      |        |      |      |         |        |                  |       |       |       |
| EPC1        | <i>Epilobium ciliatum</i>                               | <i>Epilobium ciliatum</i>                               |      |        |      |      |         |        |                  |       |       |       |
| EPOR2       | <i>Epilobium oregonense</i>                             | <i>Epilobium oregonense</i>                             |      |        |      |      |         |        |                  |       |       |       |
| EPBR3       | <i>Epilobium brachycarpum</i>                           | <i>Epilobium paniculatum</i>                            |      |        |      |      |         |        |                  |       |       |       |
| EPGI        | <i>Epipactis gigantea</i>                               | <i>Epipactis gigantea</i>                               |      |        |      |      |         |        |                  |       |       |       |
| EQAR        | <i>Equisetum arvense</i>                                | <i>Equisetum arvense</i>                                |      |        |      |      |         |        |                  |       |       |       |
| EQHY        | <i>Equisetum hyemale</i>                                | <i>Equisetum hyemale</i>                                |      |        |      |      |         |        |                  |       |       |       |
| EQLA        | <i>Equisetum laevigatum</i>                             | <i>Equisetum laevigatum</i>                             |      |        |      |      |         |        |                  | Y     |       |       |
| ERPEM       | <i>Eragrostis pectinacea</i> var. <i>miserrima</i>      | <i>Eragrostis arida</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ERBA2       | <i>Eragrostis barrelieri</i>                            | <i>Eragrostis barrelieri</i>                            |      |        |      |      |         |        |                  |       |       |       |
| ERCI        | <i>Eragrostis cilianensis</i>                           | <i>Eragrostis cilianensis</i>                           |      |        |      |      |         |        |                  |       |       |       |
| ERCU2       | <i>Eragrostis curvula</i>                               | <i>Eragrostis curvula</i>                               |      |        |      |      |         |        |                  |       |       |       |
| ERHY        | <i>Eragrostis hypnoides</i>                             | <i>Eragrostis hypnoides</i>                             |      |        |      |      |         |        |                  |       |       |       |
| ERPE        | <i>Eragrostis pectinacea</i>                            | <i>Eragrostis pectinacea</i>                            |      |        |      |      |         |        |                  |       |       |       |
| ERTR3       | <i>Eragrostis trichodes</i>                             | <i>Eragrostis trichodes</i>                             |      |        |      |      |         |        |                  |       |       |       |
| ERCA4       | <i>Erigeron canus</i>                                   | <i>Erigeron canus</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| ERDI4       | <i>Erigeron divergens</i>                               | <i>Erigeron divergens</i>                               |      | Y      |      |      |         |        |                  |       |       |       |
| EREL9       | <i>Erigeron elatior</i>                                 | <i>Erigeron elatior</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron flagellaris</i>                             |      |        |      |      |         |        |                  |       |       |       |
| ERFOF2      | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> | <i>Erigeron formosissimus</i> var. <i>formosissimus</i> |      |        |      |      |         |        |                  |       |       |       |
| ERFOV       | <i>Erigeron formosissimus</i> var. <i>viscidus</i>      | <i>Erigeron formosissimus viscidus</i>                  |      |        |      |      |         |        |                  |       |       |       |
| ERFL        | <i>Erigeron flagellaris</i>                             | <i>Erigeron nudiflorus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ERPEC       | <i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>    | <i>Erigeron peregrinus</i> subsp. <i>callianthemus</i>  |      |        |      |      |         |        |                  |       |       |       |
| ERPH        | <i>Erigeron philadelphicus</i>                          | <i>Erigeron philadelphicus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| ERVR        | <i>Erigeron vreelandii</i>                              | <i>Erigeron platyphyllus</i>                            |      |        |      |      |         |        |                  |       |       |       |
| ERCOC3      | <i>Erigeron concinnus</i> var. <i>concinnus</i>         | <i>Erigeron pumilus</i> subsp. <i>concinnoideus</i>     |      |        |      |      |         |        |                  |       |       |       |
| ERRH2       | <i>Erigeron rhizomatus</i>                              | <i>Erigeron rhizomatus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ERSI3       | <i>Erigeron simplex</i>                                 | <i>Erigeron simplex</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ERSPM       | <i>Erigeron speciosus</i> var. <i>macranthus</i>        | <i>Erigeron speciosus</i> var. <i>macranthus</i>        |      |        |      |      |         |        |                  |       |       |       |
| ERSU2       | <i>Erigeron subtrinervis</i>                            | <i>Erigeron subtrinervis</i>                            |      |        |      |      |         |        |                  |       |       |       |
| EREX4       | <i>Erigeron eximius</i>                                 | <i>Erigeron superbus</i>                                |      |        |      |      |         |        |                  |       |       |       |
| ERUT        | <i>Erigeron utahensis</i>                               | <i>Erigeron utahensis</i>                               |      |        |      |      |         |        |                  |       |       |       |
| ERVE2       | <i>Erigeron vetensis</i>                                | <i>Erigeron vetensis</i>                                |      |        |      |      |         |        |                  |       |       |       |
| ERACA       | <i>Eriochloa acuminata</i> var. <i>acuminata</i>        | <i>Eriochloa gracilis</i>                               |      |        |      |      |         |        |                  |       |       |       |
| ERAB2       | <i>Eriogonum abertianum</i>                             | <i>Eriogonum abertianum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| ERAL4       | <i>Eriogonum alatum</i>                                 | <i>Eriogonum alatum</i>                                 | Y    | Y      |      |      |         |        |                  |       |       |       |
| ERAN4       | <i>Eriogonum annuum</i>                                 | <i>Eriogonum annuum</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ERCE2       | <i>Eriogonum cernuum</i>                                | <i>Eriogonum cernuum</i>                                |      |        |      |      |         |        |                  |       |       |       |

# ETHNOGRAPHIC INFORMATION CON'T

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|-------------|-----------------------------------------------------------|---------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| EREF        | <i>Eriogonum effusum</i>                                  | <i>Eriogonum effusum</i>                          |      |        |      |      |         |        |                  |       |       |       |
| ERJA        | <i>Eriogonum jamesii</i>                                  | <i>Eriogonum jamesii</i>                          |      |        |      |      |         |        |                  |       |       |       |
| ERLE9       | <i>Eriogonum leptocladon</i>                              | <i>Eriogonum leptocladon</i>                      |      |        |      |      |         |        |                  |       |       |       |
| ERPO4       | <i>Eriogonum polycladon</i>                               | <i>Eriogonum polycladon</i>                       |      |        |      |      |         |        |                  |       |       |       |
| ERRA3       | <i>Eriogonum racemosum</i>                                | <i>Eriogonum racemosum</i>                        |      |        |      |      |         |        |                  |       |       |       |
| ERC16       | <i>Erodium cicutarium</i>                                 | <i>Erodium cicutarium</i>                         |      |        |      |      |         |        |                  |       | Y     |       |
| ERCAC       | <i>Erysimum capitatum</i> var. <i>capitatum</i>           | <i>Erysimum asperum</i>                           |      |        |      |      |         |        |                  |       |       |       |
| ERCA14      | <i>Erysimum capitatum</i>                                 | <i>Erysimum capitatum</i>                         | Y    |        |      |      |         |        |                  |       |       |       |
| ERIN7       | <i>Erysimum inconspicuum</i>                              | <i>Erysimum inconspicuum</i>                      |      |        |      |      |         |        |                  |       |       |       |
| ERHE7       | <i>Erythronium hendersonii</i>                            | <i>Eupatorium herbaceum</i>                       |      |        |      |      |         |        |                  |       |       |       |
| CHAL11      | <i>Chamaesyce albomarginata</i>                           | <i>Euphorbia albomarginata</i>                    |      |        |      |      |         |        |                  | Y     |       |       |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i>                          |      |        |      |      |         |        |                  |       |       |       |
| EUDE4       | <i>Euphorbia dentata</i>                                  | <i>Euphorbia dentata</i> var. <i>cuphosperma</i>  |      |        |      |      |         |        |                  |       |       |       |
| EUEX4       | <i>Euphorbia exstipulata</i>                              | <i>Euphorbia exstipulata</i>                      |      |        |      |      |         |        |                  |       |       |       |
| CHFE3       | <i>Chamaesyce fendleri</i>                                | <i>Euphorbia fendleri</i> var. <i>fendleri</i>    |      |        |      |      |         |        |                  |       |       |       |
| CHGEG       | <i>Chamaesyce geyeri</i> var. <i>geyeri</i>               | <i>Euphorbia geyeri</i>                           |      |        |      |      |         |        |                  |       |       |       |
| EULU        | <i>Euphorbia lurida</i>                                   | <i>Euphorbia lurida</i>                           |      |        |      |      |         |        |                  |       |       |       |
| CHMI8       | <i>Chamaesyce missurica</i>                               | <i>Euphorbia missurica</i> var. <i>intermedia</i> |      |        |      |      |         |        |                  |       |       |       |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia neomexicana</i>                      |      |        |      |      |         |        |                  |       |       |       |
| CHRE4       | <i>Chamaesyce revoluta</i>                                | <i>Euphorbia revoluta</i>                         |      |        |      |      |         |        |                  |       |       |       |
| EURO5       | <i>Euphorbia robusta</i>                                  | <i>Euphorbia robusta</i>                          |      |        |      |      |         |        |                  |       |       |       |
| CHSES       | <i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i> | <i>Euphorbia serpyllifolia</i>                    | Y    |        |      |      |         |        |                  |       |       |       |
| KRLA2       | <i>Krascheninnikovia lanata</i>                           | <i>Eurotia lanata</i>                             | Y    |        |      |      |         |        |                  | Y     |       |       |
| EVNU        | <i>Evolvulus nuttallianus</i>                             | <i>Evolvulus pilosus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| FAPA        | <i>Fallugia paradoxa</i>                                  | <i>Fallugia paradoxa</i>                          |      |        | Y    | Y    |         |        |                  | Y     | Y     |       |
| FERUR       | <i>Fendleri rupicola</i> var. <i>rupicola</i>             | <i>Fendleri rupicola</i> var. <i>rupicola</i>     |      | Y      |      |      |         |        |                  |       |       |       |
| FEAR2       | <i>Festuca arizonica</i>                                  | <i>Festuca arizonica</i>                          |      |        |      |      |         |        |                  |       |       |       |
| LOPR7       | <i>Lolium pratense</i>                                    | <i>Festuca elatior</i>                            |      |        |      |      |         |        |                  |       |       |       |
| VUOCO       | <i>Vulpia octoflora</i> var. <i>octoflora</i>             | <i>Festuca octoflora</i>                          |      |        |      |      |         |        |                  |       |       |       |
| FE0V        | <i>Festuca ovina</i> L.                                   | <i>Festuca ovina</i>                              |      |        |      |      |         |        |                  |       |       |       |
| FESO        | <i>Festuca sororia</i>                                    | <i>Festuca sororia</i>                            |      |        |      |      |         |        |                  |       |       |       |
| FETH        | <i>Festuca thurberi</i>                                   | <i>Festuca thurberi</i>                           |      |        |      |      |         |        |                  |       |       |       |
| FOPUP       | <i>Forestiera pubescens</i> var. <i>pubescens</i>         | <i>Forestiera neomexicana</i>                     |      | Y      |      |      |         |        |                  |       | Y     |       |
| FRVEA2      | <i>Fragaria vesca</i> ssp. <i>americana</i>               | <i>Fragaria americana</i>                         |      |        |      |      |         |        |                  |       |       |       |
| FRVIV       | <i>Fragaria virginiana</i> ssp. <i>virginiana</i>         | <i>Fragaria ovalis</i>                            |      | Y      |      |      |         |        |                  |       |       |       |
| AMAC2       | <i>Ambrosia acanthicarpa</i> Hook.                        | <i>Franseria acanthicarpa</i>                     |      |        |      |      |         |        |                  |       |       |       |
| AMCO3       | <i>Ambrosia confertiflora</i> DC.                         | <i>Franseria confertiflora</i>                    |      |        |      |      |         |        |                  |       |       |       |
| GAPI        | <i>Gaillardia pinnatifida</i> Torr.                       | <i>Gaillardia pinnatifida</i>                     |      |        |      | Y    |         |        |                  | Y     |       |       |
| GAAP2       | <i>Galium aparine</i> L.                                  | <i>Galium aparine</i>                             |      |        |      |      |         |        |                  |       |       |       |

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|-------------|---------------------------------------------------------|--------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| GAMEA       | <i>Galium mexicanum</i> ssp. <i>aspermum</i>            | <i>Galium aspermum</i>                           |      |        |      |      |         |        |                  |       |       |       |
| GABO2       | <i>Galium boreale</i>                                   | <i>Galium boreale</i>                            |      |        |      |      |         |        |                  |       |       |       |
| GAFE        | <i>Galium fendleri</i>                                  | <i>Galium fendleri</i>                           |      |        |      |      |         |        |                  |       |       |       |
| GAMI        | <i>Galium microphyllum</i>                              | <i>Galium microphyllum</i>                       |      |        |      |      |         |        |                  |       |       |       |
| GATRS2      | <i>Galium trifidum</i> ssp. <i>subbiflorum</i>          | <i>Galium tinctorum</i> var. <i>subbiflorum</i>  |      |        |      |      |         |        |                  |       |       |       |
| GACO5       | <i>Gaura coccinea</i>                                   | <i>Gaura coccinea</i>                            |      |        |      |      |         |        |                  |       |       |       |
| GAPA6       | <i>Gaura parviflora</i>                                 | <i>Gaura parviflora</i>                          |      |        |      |      |         | Y      |                  | Y     |       |       |
| GEAF        | <i>Gentiana affinis</i>                                 | <i>Gentiana affinis</i>                          |      | Y      |      |      |         |        |                  |       |       |       |
| GEAF        | <i>Gentiana affinis</i>                                 | <i>Gentiana bigelovii</i>                        |      |        |      |      |         |        |                  |       |       |       |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>           | <i>Gentiana plebeia</i>                          |      |        |      |      |         |        |                  |       |       |       |
| GEAMA       | <i>Gentianella amarella</i> ssp. <i>acuta</i>           | <i>Gentiana strictiflora</i>                     |      |        |      |      |         |        |                  |       |       |       |
| GECA3       | <i>Geranium caespitosum</i>                             | <i>Geranium caespitosum</i>                      |      |        |      |      |         |        |                  | Y     |       |       |
| GECAF       | <i>Geranium caespitosum</i> var. <i>fremontii</i>       | <i>Geranium fremontii</i>                        |      |        |      |      |         |        |                  |       |       |       |
| GECAP2      | <i>Geranium caespitosum</i> var. <i>parryi</i>          | <i>Geranium fremontii</i> var. <i>parryi</i>     |      |        |      |      |         |        |                  |       |       |       |
| GERI        | <i>Geranium richardsonii</i>                            | <i>Geranium richardsonii</i>                     |      |        |      |      |         |        |                  |       |       |       |
| GEMAP       | <i>Geum macrophyllum</i> var. <i>perincisum</i>         | <i>Geum macrophyllum</i> var. <i>perincisum</i>  |      |        |      |      |         |        |                  |       |       |       |
| GERI2       | <i>Geum rivale</i>                                      | <i>Geum rivale</i>                               |      |        |      |      |         |        |                  |       |       |       |
| GEAL3       | <i>Geum aleppicum</i>                                   | <i>Geum strictum</i> var. <i>strictum</i>        |      |        |      |      |         |        |                  |       |       |       |
| GETRC2      | <i>Geum triflorum</i> var. <i>ciliatum</i>              | <i>Geum triflorum</i> var. <i>ciliatum</i>       |      |        |      |      |         |        |                  |       |       |       |
| GIFLA       | <i>Gilia flavocincta</i> ssp. <i>australis</i>          | <i>Gilia flavocincta</i> subsp. <i>australis</i> |      |        |      |      |         |        |                  |       |       |       |
| GILE3       | <i>Gilia leptomeria</i>                                 | <i>Gilia leptomeria</i>                          |      |        |      |      |         |        |                  |       |       |       |
| GIPI        | <i>Gilia pinnatifida</i>                                | <i>Gilia pinnatifida</i>                         |      |        |      |      |         |        |                  |       |       |       |
| GLBO        | <i>Glyceria borealis</i>                                | <i>Glyceria borealis</i>                         |      |        |      |      |         |        |                  |       |       |       |
| GLGR        | <i>Glyceria grandis</i>                                 | <i>Glyceria grandis</i>                          |      |        |      |      |         |        |                  |       |       |       |
| GLST        | <i>Glyceria striata</i>                                 | <i>Glyceria striata</i>                          |      |        |      |      |         |        |                  |       |       |       |
| GLLE3       | <i>Glycyrrhiza lepidota</i>                             | <i>Glycyrrhiza lepidota</i>                      |      |        |      |      |         |        |                  | Y     |       |       |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       |      |        |      |      |         |        |                  |       |       |       |
| PSST7       | <i>Pseudognaphalium stramineum</i>                      | <i>Gnaphalium chilense</i>                       |      |        |      |      |         |        |                  |       |       |       |
| GNEX        | <i>Gnaphalium exilifolium</i>                           | <i>Gnaphalium grayi</i>                          |      |        |      |      |         |        |                  |       |       |       |
| PSMA11      | <i>Pseudognaphalium macounii</i>                        | <i>Gnaphalium macounii</i>                       |      |        |      |      |         |        |                  |       |       |       |
| GNPA        | <i>Gnaphalium palustre</i>                              | <i>Gnaphalium palustre</i>                       |      |        |      |      |         |        |                  |       |       |       |
| PSCAC2      | <i>Pseudognaphalium canescens</i> ssp. <i>canescens</i> | <i>Gnaphalium wrightii</i>                       |      |        |      |      |         |        |                  |       |       |       |
| GOOB2       | <i>Goodyera oblongifolia</i>                            | <i>Goodyera oblongifolia</i>                     |      |        |      |      |         |        |                  |       |       |       |
| GORE2       | <i>Goodyera repens</i>                                  | <i>Goodyera repens</i>                           |      |        |      |      |         |        |                  |       |       |       |
| GRNUA       | <i>Grindelia nuda</i> var. <i>aphanactis</i>            | <i>Grindelia aphanactis</i>                      |      |        |      |      |         |        |                  |       |       |       |
| GRFA        | <i>Grindelia fastigiata</i>                             | <i>Grindelia fastigiata</i>                      |      |        |      |      |         |        |                  |       |       |       |
| GRSQ        | <i>Grindelia squarrosa</i>                              | <i>Grindelia squarrosa</i>                       |      |        |      |      |         |        |                  |       |       |       |
| GUMI        | <i>Gutierrezia microcephala</i>                         | <i>Gutierrezia microcephala</i>                  |      |        |      |      |         |        |                  |       |       |       |

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|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| GUSA2       | <i>Gutierrezia sarothrae</i>                                                      | <i>Gutierrezia sarothrae</i>                              |      | Y      |      |      |         |        |                  |       |       |       |
| PLHYH2      | <i>Platanthera hyperborea</i> var. <i>hyperborea</i>                              | <i>Habenaria hyperborea</i>                               |      |        |      |      |         |        |                  |       |       |       |
| PLSPS       | <i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>                            | <i>Habenaria sparsiflora</i>                              |      |        |      |      |         |        |                  |       |       |       |
| HAFL2       | <i>Hackelia floribunda</i>                                                        | <i>Hackelia floribunda</i>                                |      |        |      |      |         |        |                  |       |       |       |
| HABE3       | <i>Hackelia besseyi</i>                                                           | <i>Hackelia grisea</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| HAPI2       | <i>Hackelia pinetorum</i>                                                         | <i>Hackelia pinetorum</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| PYCRC       | <i>Pyrrocoma crocea</i> var. <i>crocea</i>                                        | <i>Haplopappus croceus</i>                                |      |        |      |      |         |        |                  |       |       |       |
| MAGR10      | <i>Machaeranthera gracilis</i>                                                    | <i>Haplopappus gracilis</i>                               |      |        |      |      |         |        |                  |       |       |       |
| MAGRG       | <i>Machaeranthera grindelioides</i> var. <i>grindelioides</i>                     | <i>Haplopappus nuttallii</i>                              |      |        |      |      |         |        |                  |       |       |       |
| SOPA4       | <i>Solidago parryi</i>                                                            | <i>Haplopappus parryi</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| MAPIP4      | <i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i> | <i>Haplopappus spinulosus</i> subsp. <i>spinulosus</i>    |      |        |      |      |         |        |                  |       |       |       |
| HEDR        | <i>Hedeoma drummondii</i>                                                         | <i>Hedeoma drummondii</i>                                 |      | Y      |      |      |         |        |                  |       |       |       |
| HENA        | <i>Hedeoma nana</i>                                                               | <i>Hedeoma nana</i>                                       |      |        |      |      |         | Y      | Y                | Y     |       |       |
| HEOB        | <i>Hedeoma oblongifolia</i>                                                       | <i>Hedeoma oblongifolia</i>                               |      |        |      |      |         |        |                  |       |       |       |
| HEPU12      | <i>Hedeoma pulcherrima</i>                                                        | <i>Hedeoma pulcherrima</i>                                |      |        |      |      |         |        |                  |       |       |       |
| HEAUM       | <i>Helenium autumnale</i> var. <i>montanum</i>                                    | <i>Helenium autumnale</i> var. <i>montanum</i>            |      |        |      |      |         |        |                  |       |       |       |
| HYHO        | <i>Hymenoxys hoopesii</i>                                                         | <i>Helenium hoopesii</i>                                  |      | Y      |      |      |         |        |                  |       |       |       |
| HEQU2       | <i>Helianthella quinquenervis</i>                                                 | <i>Helianthella quinquenervis</i>                         |      |        |      |      |         |        |                  |       |       |       |
| HEAN3       | <i>Helianthus annuus</i>                                                          | <i>Helianthus annuus</i>                                  | Y    | Y      |      |      |         |        |                  |       |       |       |
| HEAR8       | <i>Helianthus arizonensis</i>                                                     | <i>Helianthus arizonensis</i>                             |      |        |      |      |         |        |                  |       |       |       |
| HEPE        | <i>Helianthus petiolaris</i>                                                      | <i>Helianthus petiolaris</i>                              |      |        |      | Y    |         |        |                  |       |       |       |
| HEPAS       | <i>Helianthus pauciflorus</i> ssp. <i>subrhomboides</i>                           | <i>Helianthus rigidus</i> subsp. <i>subrhomboides</i>     |      |        |      |      |         |        |                  |       |       |       |
| HEMA80      | <i>Heracleum maximum</i>                                                          | <i>Heracleum lanatum</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| HEPA11      | <i>Heuchera parvifolia</i>                                                        | <i>Heuchera parvifolia</i>                                |      | Y      |      |      |         |        |                  |       |       |       |
| HICA4       | <i>Hieracium cameum</i>                                                           | <i>Hieracium cameum</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| HIFE        | <i>Hieracium fendleri</i>                                                         | <i>Hieracium fendleri</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| HIOD        | <i>Hierochloa odorata</i>                                                         | <i>Hierochloa odorata</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| PLJA        | <i>Pleuraphis jamesii</i>                                                         | <i>Hilaria jamesii</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| HODU        | <i>Holodiscus dumosus</i>                                                         | <i>Holodiscus dumosus</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| HOBR2       | <i>Hordeum brachyantherum</i>                                                     | <i>Hordeum brachyantherum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| HOJU        | <i>Hordeum jubatum</i>                                                            | <i>Hordeum jubatum</i>                                    |      |        |      |      |         |        |                  | Y     |       |       |
| HULUL       | <i>Humulus lupulus</i> var. <i>lupuloides</i>                                     | <i>Humulus americanus</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| HYFE        | <i>Hydrophyllum fendleri</i>                                                      | <i>Hydrophyllum fendleri</i>                              |      |        |      |      |         |        |                  |       |       |       |
| HYFI        | <i>Hymenopappus filifolius</i>                                                    | <i>Hymenopappus filifolius</i>                            | Y    | Y      |      |      |         |        |                  |       |       |       |
| HYFLF       | <i>Hymenopappus flavescens</i> var. <i>flavescens</i>                             | <i>Hymenopappus flavescens</i> var. <i>canotomentosus</i> |      |        |      |      |         |        |                  |       |       |       |

# ETHNOGRAPHIC INFORMATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                     | Martin and Hutchins (1980)                           | Zuni | Navajo | Tewa | Hopi | Cochiti | Isleta | Mescalero Apache | Acoma | Jemez | Other |
|-------------|------------------------------------------------------|------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| HYNE        | <i>Hymenopappus newberryi</i>                        | <i>Hymenopappus newberryi</i>                        |      |        |      |      |         |        |                  |       |       |       |
| HYTE2       | <i>Hymenopappus tenuifolius</i>                      | <i>Hymenopappus tenuifolius</i>                      |      |        |      |      |         |        |                  |       |       |       |
| TECA2       | <i>Tetradymia canescens</i>                          | <i>Hymenoxys acaulis</i> var. <i>acaulis</i>         |      |        |      |      |         |        |                  |       |       |       |
| TEACA       | <i>Tetranneuris acaulis</i> var. <i>arizonica</i>    | <i>Hymenoxys acaulis</i> var. <i>arizonica</i>       |      |        |      |      |         |        |                  |       |       |       |
| TEACN       | <i>Tetranneuris acaulis</i> var. <i>nana</i>         | <i>Hymenoxys argentea</i>                            |      |        |      |      |         |        |                  |       |       |       |
| TEBR        | <i>Tetranneuris brandegei</i>                        | <i>Hymenoxys brandegei</i>                           |      |        |      |      |         |        |                  |       |       |       |
| TEIV        | <i>Tetranneuris ivesiana</i>                         | <i>Hymenoxys ivesiana</i>                            |      |        |      |      |         |        |                  |       |       |       |
| HYRIF       | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i> | <i>Hymenoxys richardsonii</i> var. <i>floribunda</i> |      |        |      |      |         |        |                  | Y     |       |       |
| HYNI        | <i>Hyoscyamus niger</i>                              | <i>Hyoscyamus niger</i>                              |      |        |      |      |         |        |                  |       |       |       |
| HYFO4       | <i>Hypericum formosum</i>                            | <i>Hypericum formosum</i>                            |      |        |      |      |         |        |                  |       |       |       |
| IPCO3       | <i>Ipomoea coccinea</i>                              | <i>Ipomoea coccinea</i>                              |      |        |      |      |         |        |                  |       |       |       |
| IPHE        | <i>Ipomoea hederacea</i>                             | <i>Ipomoea hederacea</i>                             |      |        |      |      |         |        |                  |       |       |       |
| IPAGA3      | <i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>     | <i>Ipomopsis aggregata</i> subsp. <i>aggregata</i>   |      | Y      | Y    | Y    |         |        |                  |       |       |       |
| LINUT       | <i>Linanthus nuttallii</i> ssp. <i>tenuilobus</i>    | <i>Ipomopsis aggregata</i> subsp. <i>texana</i>      |      |        |      |      |         |        |                  |       |       |       |
| IPLA2       | <i>Ipomopsis laxiflora</i>                           | <i>Ipomopsis laxiflora</i>                           |      |        |      |      |         |        |                  |       |       |       |
| IPLO2       | <i>Ipomopsis longiflora</i>                          | <i>Ipomopsis longiflora</i>                          |      |        |      | Y    |         |        |                  |       |       |       |
| IPMU3       | <i>Ipomopsis multiflora</i>                          | <i>Ipomopsis multiflora</i>                          | Y    |        |      |      |         |        |                  |       |       |       |
| IPPU4       | <i>Ipomopsis pumila</i>                              | <i>Ipomopsis pumila</i>                              |      |        |      |      |         |        |                  |       |       |       |
| IRMI        | <i>Iris missouriensis</i>                            | <i>Iris missouriensis</i>                            |      |        |      |      |         |        |                  |       | Y     |       |
| IVAX        | <i>Iva axillaris</i>                                 | <i>Iva axillaris</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| IVXA        | <i>Iva xanthifolia</i>                               | <i>Iva xanthifolia</i>                               |      |        |      |      |         |        |                  |       |       |       |
| JAAM        | <i>Jamesia americana</i>                             | <i>Jamesia americana</i>                             |      |        |      |      |         |        |                  |       |       |       |
| JUBAM       | <i>Juncus balticus</i> var. <i>montanus</i>          | <i>Juncus balticus</i> var. <i>montanus</i>          |      |        |      |      |         |        |                  |       |       |       |
| JUBU        | <i>Juncus bufonius</i>                               | <i>Juncus bufonius</i>                               |      |        |      |      |         |        |                  |       |       |       |
| JUCO2       | <i>Juncus confusus</i>                               | <i>Juncus confusus</i>                               |      |        |      |      |         |        |                  |       |       |       |
| JUDR        | <i>Juncus drummondii</i>                             | <i>Juncus drummondii</i>                             |      |        |      |      |         |        |                  |       |       |       |
| JUIN2       | <i>Juncus interior</i>                               | <i>Juncus interior</i>                               |      |        |      |      |         |        |                  |       |       |       |
| JULOL       | <i>Juncus longistylis</i> var. <i>longistylis</i>    | <i>Juncus longistylis</i> var. <i>longistylis</i>    |      |        |      |      |         |        |                  |       | Y     |       |
| JUMA4       | <i>Juncus marginatus</i>                             | <i>Juncus marginatus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| JUME4       | <i>Juncus mexicanus</i>                              | <i>Juncus mexicanus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| JUTE        | <i>Juncus tenuis</i>                                 | <i>Juncus tenuis</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| JUTO        | <i>Juncus torreyi</i>                                | <i>Juncus torreyi</i>                                |      |        |      | Y    |         |        |                  |       |       |       |
| JUXI        | <i>Juncus xiphioides</i>                             | <i>Juncus xiphioides</i>                             |      |        |      |      |         |        |                  |       |       |       |
| JUCO6       | <i>Juniperus communis</i>                            | <i>Juniperus communis</i>                            |      |        |      |      |         |        |                  |       | Y     |       |
| JUDE2       | <i>Juniperus deppeana</i>                            | <i>Juniperus deppeana</i>                            |      |        |      |      |         |        |                  |       |       |       |
| JUMO        | <i>Juniperus monosperma</i>                          | <i>Juniperus monosperma</i>                          | Y    | Y      |      |      |         |        |                  | Y     | Y     |       |
| JUSC2       | <i>Juniperus scopulorum</i>                          | <i>Juniperus scopulorum</i>                          |      |        |      |      |         |        |                  | Y     | Y     |       |
| KAHI        | <i>Kallstroemia hirsutissima</i>                     | <i>Kallstroemia hirsutissima</i>                     |      |        |      |      |         |        |                  |       |       |       |
| KOSC        | <i>Kochia scoparia</i>                               | <i>Kochia scoparia</i>                               |      |        |      |      |         |        |                  |       |       |       |

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|-------------|---------------------------------------------------------|--------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| KOMA        | <i>Koeleria macrantha</i>                               | <i>Koeleria cristata</i>                         |      |        |      |      |         |        |                  | Y     |       |       |
| KRBI        | <i>Krigia biflora</i> (Walt.) Blake                     | <i>Krigia biflora</i>                            |      |        |      |      |         |        |                  |       |       |       |
| BREUC2      | <i>Brickellia eupatorioides</i> var. <i>chlorolepis</i> | <i>Kuhnia chlorolepis</i>                        |      |        |      |      |         |        |                  |       |       |       |
| LACA        | <i>Lactuca canadensis</i>                               | <i>Lactuca canadensis</i>                        |      |        |      |      |         |        |                  |       |       |       |
| LAGR        | <i>Lactuca graminifolia</i>                             | <i>Lactuca graminifolia</i>                      |      |        |      |      |         |        |                  |       |       |       |
| LALU        | <i>Lactuca ludoviciana</i>                              | <i>Lactuca ludoviciana</i>                       |      |        |      |      |         |        |                  |       |       |       |
| LATAP       | <i>Lactuca tatarica</i> var. <i>pulchella</i>           | <i>Lactuca pulchella</i>                         |      |        |      |      |         |        |                  |       |       |       |
| LASE        | <i>Lactuca serriola</i>                                 | <i>Lactuca serriola</i>                          |      |        |      |      |         |        |                  |       |       |       |
| LABI        | <i>Lactuca biennis</i>                                  | <i>Lactuca spicata</i>                           |      |        |      |      |         |        |                  |       |       |       |
| LASQ        | <i>Lappula squarrosa</i>                                | <i>Lappula echinata</i>                          |      |        |      |      |         |        |                  |       |       |       |
| LAOCO       | <i>Lappula occidentalis</i> var. <i>occidentalis</i>    | <i>Lappula redowskii</i>                         |      |        |      |      |         |        |                  |       |       |       |
| LAOCC       | <i>Lappula occidentalis</i> var. <i>cupulata</i>        | <i>Lappula texana</i>                            |      |        |      |      |         |        |                  |       |       |       |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus arizonicus</i>                       |      |        |      |      |         |        |                  |       |       |       |
| LALAL3      | <i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>      | <i>Lathyrus leucanthus</i>                       |      |        |      |      |         |        |                  |       |       |       |
| LEOR        | <i>Leersia oryzoides</i>                                | <i>Leersia oryzoides</i>                         |      |        |      |      |         |        |                  |       |       |       |
| LEMI3       | <i>Lemna minor</i>                                      | <i>Lemna minor</i>                               |      |        |      |      |         |        |                  |       |       |       |
| LEVIM       | <i>Lepidium virginicum</i> var. <i>medium</i>           | <i>Lepidium medium</i> var. <i>pubescens</i>     |      |        |      |      |         |        |                  |       |       |       |
| LEVIP       | <i>Lepidium virginicum</i> var. <i>pubescens</i>        | <i>Lepidium medium</i> var. <i>medium</i>        |      |        |      |      |         |        |                  |       |       |       |
| LEFE        | <i>Lesquerella fendleri</i>                             | <i>Lesquerella fendleri</i>                      |      |        |      |      |         |        |                  | Y     |       |       |
| LEIN3       | <i>Lesquerella intermedia</i>                           | <i>Lesquerella intermedia</i>                    |      |        |      | Y    |         |        |                  |       |       |       |
| LERE3       | <i>Lesquerella rectipes</i>                             | <i>Lesquerella rectipes</i>                      |      |        |      |      |         |        |                  |       |       |       |
| CHER2       | <i>Chaetopappa ericoides</i>                            | <i>Leucelene ericoides</i>                       | Y    |        |      |      |         |        |                  | Y     |       |       |
| LIPU        | <i>Liatris punctata</i>                                 | <i>Liatris punctata</i>                          |      |        |      |      |         |        |                  |       |       |       |
| LIPO        | <i>Ligusticum porteri</i>                               | <i>Ligusticum porteri</i>                        |      |        |      |      |         |        |                  |       |       |       |
| LIPHA       | <i>Lilium philadelphicum</i> var. <i>andinum</i>        | <i>Lilium umbellatum</i>                         |      |        |      |      |         |        |                  |       |       |       |
| LIAQ        | <i>Limosella aquatica</i>                               | <i>Limosella aquatica</i>                        |      |        |      |      |         |        |                  |       |       |       |
| LIVU2       | <i>Linaria vulgaris</i>                                 | <i>Linaria vulgaris</i>                          |      |        |      |      |         |        |                  |       |       |       |
| LIAUA       | <i>Linum australe</i> var. <i>australe</i>              | <i>Linum aristatum</i> var. <i>australe</i>      |      |        |      |      |         |        |                  | Y     |       |       |
| LILE3       | <i>Linum lewisii</i>                                    | <i>Linum lewisii</i>                             |      |        |      |      |         |        |                  |       |       |       |
| LINE        | <i>Linum neomexicanum</i>                               | <i>Linum neomexicana</i>                         |      |        |      |      |         |        |                  |       |       |       |
| LIPU4       | <i>Linum puberulum</i>                                  | <i>Linum puberulum</i>                           | Y    |        |      |      |         |        |                  |       |       |       |
| LIRI        | <i>Linum rigidum</i>                                    | <i>Linum rigidum</i> "complex"                   |      |        |      |      |         |        |                  |       |       |       |
| LICO7       | <i>Lithospermum cobrense</i>                            | <i>Lithospermum cobrense</i>                     |      |        |      |      |         |        |                  |       |       |       |
| LIIN2       | <i>Lithospermum incisum</i>                             | <i>Lithospermum incisum</i>                      |      |        |      |      |         |        |                  |       |       |       |
| LIMU3       | <i>Lithospermum multiflorum</i>                         | <i>Lithospermum multiflorum</i>                  |      |        |      |      |         |        |                  |       |       |       |
| LOCAG2      | <i>Lobelia cardinalis</i> ssp. <i>graminea</i>          | <i>Lobelia cardinalis</i> subsp. <i>graminae</i> |      |        |      |      |         |        |                  |       | Y     |       |
| LOPE        | <i>Lolium perenne</i>                                   | <i>Lolium perenne</i>                            |      |        |      |      |         |        |                  |       |       |       |
| LOIN5       | <i>Lonicera involucrata</i>                             | <i>Lonicera involucrata</i>                      |      |        |      |      |         |        |                  |       |       |       |
| LOWR        | <i>Lotus wrightii</i>                                   | <i>Lotus wrightii</i>                            |      |        |      |      |         | Y      |                  |       |       |       |

# ETHNOGRAPHIC INFORMATION CON'T

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|-------------|--------------------------------------------------------------------------|---------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| LUAL5       | <i>Lupinus X alpestris</i>                                               | <i>Lupinus alpestris</i>                          |      |        |      |      |         |        |                  |       |       |       |
| LUAM        | <i>Lupinus ammophilus</i>                                                | <i>Lupinus ammophilus</i>                         |      |        |      |      |         |        |                  |       |       |       |
| LUAR3       | <i>Lupinus argenteus</i>                                                 | <i>Lupinus argenteus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| LUBR2       | <i>Lupinus brevicaulis</i>                                               | <i>Lupinus brevicaulis</i>                        |      | Y      |      |      |         |        |                  |       |       |       |
| LUCAA       | <i>Lupinus caudatus</i> ssp. <i>argophyllus</i>                          | <i>Lupinus caudatus</i> subsp. <i>argophyllus</i> |      |        |      |      |         |        |                  |       |       |       |
| LUKI        | <i>Lupinus kingii</i>                                                    | <i>Lupinus kingii</i>                             |      |        |      | Y    |         |        |                  |       |       |       |
| LUPU        | <i>Lupinus pusillus</i>                                                  | <i>Lupinus pusillus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| LUARR       | <i>Lupinus argenteus</i> ssp. <i>rubricaulis</i>                         | <i>Lupinus rubricaulis</i>                        |      |        |      |      |         |        |                  |       |       |       |
| LUPA4       | <i>Luzula parviflora</i>                                                 | <i>Luzula parviflora</i>                          |      |        |      |      |         |        |                  |       |       |       |
| LYPA        | <i>Lycium pallidum</i>                                                   | <i>Lycium pallidum</i>                            | Y    | Y      |      | Y    |         |        |                  | Y     |       |       |
| LYAM        | <i>Lycopus americanus</i>                                                | <i>Lycopus americanus</i>                         |      |        |      |      |         |        |                  |       |       |       |
| LYPH        | <i>Lycurus phleoides</i>                                                 | <i>Lycurus phleoides</i>                          |      |        |      |      |         |        |                  |       |       |       |
| PSAS2       | <i>Psilactis asteroides</i>                                              | <i>Machaeranthera amplifolia</i>                  |      |        |      |      |         |        |                  |       |       |       |
| MABI        | <i>Machaeranthera bigelovii</i>                                          | <i>Machaeranthera bigelovii</i>                   |      |        |      |      |         |        |                  |       |       |       |
| MACA2       | <i>Machaeranthera canescens</i>                                          | <i>Machaeranthera canescens</i>                   |      |        |      |      |         |        |                  |       |       |       |
| MACAG2      | <i>Machaeranthera canescens</i> ssp. <i>glabra</i> var. <i>glabra</i>    | <i>Machaeranthera linearis</i>                    |      |        |      |      |         |        |                  |       |       |       |
| MATA2       | <i>Machaeranthera tanacetifolia</i>                                      | <i>Machaeranthera tanacetifolia</i>               |      |        |      |      |         |        |                  |       |       |       |
| MACAI2      | <i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>incana</i> | <i>Machaeranthera tephrodes</i>                   |      |        |      |      |         |        |                  |       |       |       |
| MAFE        | <i>Malacothrix fendleri</i>                                              | <i>Malacothrix fendleri</i>                       |      |        |      |      |         |        |                  |       |       |       |
| MAMA13      | <i>Malaxis macrostachya</i>                                              | <i>Malaxis soulei</i>                             |      |        |      |      |         |        |                  |       |       |       |
| MANE        | <i>Malva neglecta</i>                                                    | <i>Malva negelecta</i>                            |      |        |      |      |         |        |                  |       |       |       |
| MAPA5       | <i>Malva parviflora</i>                                                  | <i>Malva parviflora</i>                           |      |        |      |      |         |        |                  |       |       |       |
| MAWR2       | <i>Mammillaria wrightii</i>                                              | <i>Mammillaria wrightii</i>                       |      |        |      |      |         |        |                  |       |       |       |
| MAVU        | <i>Marrubium vulgare</i>                                                 | <i>Marrubium vulgare</i>                          |      | Y      |      |      |         |        |                  |       |       |       |
| MAAN9       | <i>Maurandella antirrhiniflora</i>                                       | <i>Maurandya antirrhiniflora</i>                  |      |        |      |      |         |        |                  |       |       |       |
| MELU        | <i>Medicago lupulina</i>                                                 | <i>Medicago lupulina</i>                          |      |        |      |      |         |        |                  |       |       |       |
| MESA        | <i>Medicago sativa</i>                                                   | <i>Medicago sativa</i>                            |      |        |      |      |         |        |                  |       |       |       |
| MELE2       | <i>Melampodium leucanthum</i>                                            | <i>Melampodium leucanthum</i>                     |      |        |      |      |         |        |                  |       |       |       |
| MEPO        | <i>Melica porteri</i>                                                    | <i>Melica porteri</i>                             |      |        |      |      |         |        |                  |       |       |       |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus albus</i>                            |      |        |      |      |         |        |                  | Y     | Y     |       |
| MEIN2       | <i>Melilotus indicus</i>                                                 | <i>Melilotus indicus</i>                          |      |        |      |      |         | Y      |                  |       |       |       |
| MEOF        | <i>Melilotus officinalis</i>                                             | <i>Melilotus officinalis</i>                      |      |        |      |      |         |        |                  |       |       |       |
| MESC        | <i>Menodora scabra</i>                                                   | <i>Menodora scabra</i>                            |      |        |      |      |         |        |                  |       |       |       |
| MEAR4       | <i>Mentha arvensis</i>                                                   | <i>Mentha arvensis</i>                            |      |        |      |      |         |        |                  |       |       |       |
| MEAL6       | <i>Mentzelia albicaulis</i>                                              | <i>Mentzelia albicaulis</i>                       | Y    |        |      |      |         |        |                  |       |       |       |
| MELA        | <i>Mentzelia laciniata</i>                                               | <i>Mentzelia laciniata</i>                        |      |        |      |      |         |        |                  |       |       |       |
| MENUS       | <i>Mentzelia nuda</i> var. <i>stricta</i>                                | <i>Mentzelia nuda</i> var. <i>stricta</i>         |      |        |      |      |         |        |                  |       |       |       |

# ETHNOGRAPHIC INFORMATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                                       | Martin and Hutchins (1980)                         | Zuni | Navajo | Tewa | Hopi | Cochiti | Isleta | Mescalero Apache | Acoma | Jemez | Other |
|-------------|------------------------------------------------------------------------|----------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| MEPUP       | <i>Mentzelia pumila</i> var. <i>pumila</i>                             | <i>Mentzelia pumila</i> var. <i>integra</i>        |      |        |      |      |         |        |                  |       |       |       |
| MEMUI       | <i>Mentzelia multiflora</i> var. <i>integra</i>                        | <i>Mentzelia pumila</i> var. <i>multiflora</i>     |      |        |      |      |         |        |                  | Y     |       |       |
| MEMUM2      | <i>Mentzelia multiflora</i> var. <i>multiflora</i>                     | <i>Mentzelia pumila</i> var. <i>pumila</i>         | Y    |        |      |      |         |        |                  |       |       |       |
| MERU        | <i>Mentzelia rusbyi</i>                                                | <i>Mentzelia rusbyi</i>                            |      |        |      |      |         |        |                  |       |       |       |
| MEBR        | <i>Mertensia brevistyla</i>                                            | <i>Mertensia brevistyla</i>                        |      |        |      |      |         |        |                  |       |       |       |
| MEFR2       | <i>Mertensia franciscana</i>                                           | <i>Mertensia franciscana</i>                       |      |        |      |      |         |        |                  |       |       |       |
| MELAN4      | <i>Mertensia lanceolata</i> var. <i>nivalis</i>                        | <i>Mertensia lanceolata</i> var. <i>fenderli</i>   |      |        |      |      |         |        |                  |       |       |       |
| MELAL2      | <i>Mertensia lanceolata</i> var. <i>lanceolata</i>                     | <i>Mertensia lanceolata</i> var. <i>lanceolata</i> |      |        |      |      |         |        |                  |       |       |       |
| URLI2       | <i>Uropappus linearifolius</i>                                         | <i>Microseris linearifolia</i>                     |      |        |      |      |         |        |                  |       |       |       |
|             |                                                                        | <i>Microseris minimus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| PHGRG       | <i>Phlox gracilis</i> ssp. <i>gracilis</i>                             | <i>Microsteris gracilis</i>                        |      |        |      |      |         |        |                  |       |       |       |
| MIFL2       | <i>Mimulus floribundus</i>                                             | <i>Mimulus floribundus</i>                         |      |        |      |      |         |        |                  |       |       |       |
| MIGLJ       | <i>Mimulus glabratus</i> var. <i>jamesii</i>                           | <i>Mimulus glabratus</i> var. <i>fremontii</i>     |      |        |      |      |         |        |                  |       |       |       |
| MIGU        | <i>Mimulus guttatus</i>                                                | <i>Mimulus guttatus</i>                            |      |        |      |      |         |        |                  |       |       |       |
| MICO7       | <i>Mirabilis coccinea</i>                                              | <i>Mirabilis coccinea</i>                          |      |        |      |      |         |        |                  |       |       |       |
| MIMU        | <i>Mirabilis multiflora</i>                                            | <i>Mirabilis multiflora</i>                        | Y    |        | Y    |      |         |        |                  | Y     |       |       |
| MIOX        | <i>Mirabilis oxybaphoides</i>                                          | <i>Mirabilis oxybaphoides</i>                      |      | Y      |      |      |         |        |                  |       |       |       |
| DRPA2       | <i>Dracocephalum parviflorum</i>                                       | <i>Moldavica parviflora</i>                        |      |        |      |      |         |        |                  |       |       |       |
| MOFIM2      | <i>Monarda fistulosa</i> ssp. <i>fistulosa</i> var. <i>menthifolia</i> | <i>Monarda menthaefolia</i>                        |      | Y      | Y    |      | Y       |        |                  | Y     |       | Y     |
| MOPE        | <i>Monarda pectinata</i>                                               | <i>Monarda pectinata</i>                           |      |        |      |      |         |        |                  | Y     |       |       |
| MOHY3       | <i>Monotropa hypopithys</i>                                            | <i>Monotropa latisquama</i>                        |      |        |      |      |         |        |                  |       |       |       |
| MUAR4       | <i>Muhlenbergia arsenei</i>                                            | <i>Muhlenbergia arsenei</i>                        |      |        |      |      |         |        |                  |       |       |       |
| MUAS        | <i>Muhlenbergia asperifolia</i>                                        | <i>Muhlenbergia asperifolia</i>                    |      |        |      |      |         |        |                  |       |       |       |
| MUCU        | <i>Muhlenbergia curtifolia</i>                                         | <i>Muhlenbergia curtifolia</i>                     |      |        |      |      |         |        |                  |       |       |       |
| MUME2       | <i>Muhlenbergia mexicana</i>                                           | <i>Muhlenbergia mexicana</i>                       |      |        |      |      |         |        |                  |       |       |       |
| MUMO        | <i>Muhlenbergia montana</i>                                            | <i>Muhlenbergia montana</i>                        |      |        |      |      |         |        |                  |       |       |       |
| MUPA2       | <i>Muhlenbergia pauciflora</i>                                         | <i>Muhlenbergia pauciflora</i>                     |      |        |      |      |         |        |                  |       |       |       |
| MUPO2       | <i>Muhlenbergia porteri</i>                                            | <i>Muhlenbergia porteri</i>                        |      |        |      |      |         |        |                  |       |       |       |
| MUPE3       | <i>Muhlenbergia peruviana</i>                                          | <i>Muhlenbergia pulcherrima</i>                    |      |        |      |      |         |        |                  |       |       |       |
| MURA        | <i>Muhlenbergia racemosa</i>                                           | <i>Muhlenbergia racemosa</i>                       |      |        |      |      |         |        |                  |       |       |       |
| MURI2       | <i>Muhlenbergia rigens</i>                                             | <i>Muhlenbergia rigens</i>                         |      |        |      |      |         |        |                  |       |       |       |
| MUTO2       | <i>Muhlenbergia torreyi</i>                                            | <i>Muhlenbergia torreyi</i>                        |      |        |      |      |         |        |                  |       |       |       |
| MURA4       | <i>Muhlenbergia ramulosa</i>                                           | <i>Muhlenbergia wolfii</i>                         |      |        |      |      |         |        |                  |       |       |       |
| MUWR        | <i>Muhlenbergia wrightii</i>                                           | <i>Muhlenbergia wrightii</i>                       |      |        |      |      |         |        |                  |       |       |       |
| MOSQ        | <i>Monroa squarrosa</i>                                                | <i>Munroa squarrosa</i>                            |      |        |      |      |         |        |                  |       |       |       |
|             |                                                                        | <i>Myosurus minimus</i>                            |      |        |      |      |         |        |                  |       |       |       |
| NADI        | <i>Nama dichotomum</i>                                                 | <i>Nama dichotomum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| NAHI        | <i>Nama hispidum</i>                                                   | <i>Nama hispidum</i> var. <i>hispidum</i>          |      |        |      |      |         |        |                  |       |       |       |



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|-------------|------------------------------------------------------|----------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| NECA2       | <i>Nepeta cataria</i>                                | <i>Nepeta cataria</i>                              |      |        |      |      |         |        |                  | Y     |       |       |
| NIAT        | <i>Nicotiana attenuata</i>                           | <i>Nicotiana attenuata</i>                         |      |        |      |      |         |        |                  |       |       |       |
| NOMI        | <i>Nolina microcarpa</i>                             | <i>Nolina microcarpa</i>                           |      |        |      |      |         |        |                  |       | Y     |       |
| NOTHO       | <i>Notholaena</i>                                    | <i>Notholaena</i> spp.                             |      |        |      |      |         |        |                  |       |       |       |
| NOST        | <i>Notholaena standleyi</i>                          | <i>Notholaena standleyi</i>                        |      |        |      |      |         |        |                  |       |       |       |
| OEAL        | <i>Oenothera albicaulis</i>                          | <i>Oenothera albicaulis</i>                        |      |        |      |      |         |        | Y                |       |       |       |
| OECE2       | <i>Oenothera caespitosa</i>                          | <i>Oenothera caespitosa</i>                        |      |        |      |      |         |        |                  |       |       |       |
| OECEM3      | <i>Oenothera caespitosa</i> ssp. <i>macroglottis</i> | <i>Oenothera caespitosa</i> subsp. <i>eximia</i>   |      |        |      |      |         |        |                  |       |       |       |
| OECEC2      | <i>Oenothera caespitosa</i> ssp. <i>caespitosa</i>   | <i>Oenothera caespitosa</i> subsp. <i>montana</i>  |      |        |      |      |         |        |                  |       |       |       |
| OEEO2       | <i>Oenothera coronopifolia</i>                       | <i>Oenothera coronopifolia</i>                     |      |        |      |      |         |        |                  |       |       |       |
| OEFL        | <i>Oenothera flava</i>                               | <i>Oenothera flava</i>                             |      |        |      |      |         |        |                  |       |       |       |
| OEELH2      | <i>Oenothera elata</i> ssp. <i>hookeri</i>           | <i>Oenothera hookeri</i>                           |      |        |      |      |         |        |                  |       | Y     |       |
| OELA        | <i>Oenothera laciniata</i>                           | <i>Oenothera laciniata</i> var. <i>laciniata</i>   |      |        |      |      |         |        |                  |       |       |       |
| OEPAP       | <i>Oenothera pallida</i> ssp. <i>pallida</i>         | <i>Oenothera pallida</i> subsp. <i>pallida</i>     |      |        |      |      |         |        |                  |       |       |       |
| OEPR        | <i>Oenothera primiveris</i>                          | <i>Oenothera primiveris</i>                        |      |        |      |      |         |        |                  |       |       |       |
| OPCL        | <i>Opuntia clavata</i>                               | <i>Opuntia clavata</i>                             |      |        |      |      |         |        |                  | Y     |       |       |
| OPERE       | <i>Opuntia erinacea</i> var. <i>erinacea</i>         | <i>Opuntia erinacea</i> var. <i>erinacea</i>       |      |        |      |      |         |        |                  |       |       |       |
| OPERU2      | <i>Opuntia erinacea</i> var. <i>utahensis</i>        | <i>Opuntia erinacea</i> var. <i>utahensis</i>      |      |        |      |      |         |        |                  |       |       |       |
| OPIM        | <i>Opuntia imbricata</i>                             | <i>Opuntia imbricata</i>                           |      |        |      |      |         |        |                  |       |       |       |
| OPMAM3      | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>     | <i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>   |      |        |      |      |         |        |                  |       |       |       |
| OPPHP       | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>   | <i>Opuntia phaeacantha</i> var. <i>discata</i>     |      |        |      |      |         |        |                  |       |       |       |
| OPENE       | <i>Opuntia engelmannii</i> var. <i>engelmannii</i>   | <i>Opuntia phaeacantha</i> var. <i>phaeacantha</i> |      |        |      |      |         |        |                  |       |       |       |
| OPPOP       | <i>Opuntia polyacantha</i> var. <i>polyacantha</i>   | <i>Opuntia polyacantha</i> var. <i>polyacantha</i> |      | Y      |      |      |         |        |                  | Y     |       |       |
| ORFA        | <i>Orobancha fasciculata</i>                         | <i>Orobancha fasciculata</i> var. <i>lutea</i>     | Y    | Y      |      |      |         |        |                  |       |       |       |
| ORLU        | <i>Orobancha ludoviciana</i>                         | <i>Orobancha ludoviciana</i>                       |      |        |      |      |         |        |                  |       |       |       |
| ORLUM       | <i>Orobancha ludoviciana</i> ssp. <i>multiflora</i>  | <i>Orobancha multiflora</i>                        |      |        |      |      |         |        |                  |       |       |       |
| ORLU2       | <i>Orthocarpus luteus</i>                            | <i>Orthocarpus luteus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| ORPU2       | <i>Orthocarpus purpureoalbus</i>                     | <i>Orthocarpus purpureo-albus</i>                  |      |        |      |      |         |        |                  |       |       |       |
| ORAS        | <i>Oryzopsis asperifolia</i>                         | <i>Oryzopsis asperifolia</i>                       |      |        |      |      |         |        |                  |       |       |       |
| ACHY        | <i>Achnatherum hymenoides</i>                        | <i>Oryzopsis hymenoides</i>                        | Y    | Y      |      |      |         |        |                  |       |       |       |
| PIMI7       | <i>Piptatherum micranthum</i>                        | <i>Oryzopsis micrantha</i>                         |      |        |      |      |         |        |                  |       |       |       |
| OSDE        | <i>Osmorhiza depauperata</i>                         | <i>Osmorhiza obtusa</i>                            |      |        |      |      |         |        |                  |       |       |       |
| OXAL2       | <i>Oxalis alpina</i>                                 | <i>Oxalis metcalfei</i>                            |      |        |      |      |         |        |                  |       |       |       |
| OXVI        | <i>Oxalis violacea</i>                               | <i>Oxalis violacea</i>                             |      |        |      |      |         |        | Y                |       |       |       |
| MIHI        | <i>Mirabilis hirsuta</i>                             | <i>Oxybaphus hirsutus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| MILI3       | <i>Mirabilis linearis</i>                            | <i>Oxybaphus linearis</i> var. <i>linearis</i>     |      |        |      |      |         |        |                  |       |       |       |
| OXFE        | <i>Oxypolis fendleri</i>                             | <i>Oxypolis fendleri</i>                           |      |        |      |      |         |        |                  |       |       |       |
| OXLA3       | <i>Oxytropis lambertii</i>                           | <i>Oxytropis lambertii</i>                         |      | Y      |      | Y    |         |        |                  |       |       |       |
| PAMY        | <i>Paxistima myrsinites</i>                          | <i>Pachystima myrsinites</i>                       |      |        |      |      |         |        |                  |       |       |       |

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|-------------|-------------------------------------------------------------|----------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| PABU        | <i>Panicum bulbosum</i>                                     | <i>Panicum bulbosum</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| PACA6       | <i>Panicum capillare</i>                                    | <i>Panicum capillare</i> var. <i>capillare</i>           |      |        |      |      |         |        |                  |       |       |       |
| PAHA        | <i>Panicum hallii</i>                                       | <i>Panicum hallii</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum helleri</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| PAM12       | <i>Panicum miliaceum</i>                                    | <i>Panicum miliaceum</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| PAOB        | <i>Panicum obtusum</i>                                      | <i>Panicum obtusum</i>                                   |      |        |      |      |         | Y      | Y                |       |       |       |
| DIOLS       | <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i> | <i>Panicum scribnerianum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| DIACF       | <i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>    | <i>Panicum tennesseense</i>                              |      |        |      |      |         |        |                  |       |       |       |
| PAV12       | <i>Panicum virgatum</i>                                     | <i>Panicum virgatum</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| PAIN2       | <i>Parthenium incanum</i>                                   | <i>Parthenium incanum</i>                                |      |        |      |      |         |        |                  |       |       |       |
| PAQUQ       | <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i> | <i>Parthenocissus inserta</i>                            |      |        |      |      |         |        |                  |       | Y     |       |
| PEAN        | <i>Pectis angustifolia</i>                                  | <i>Pectis angustifolia</i>                               |      |        | Y    | Y    |         |        | Y                | Y     |       |       |
| PEPA2       | <i>Pectis papposa</i>                                       | <i>Pectis papposa</i>                                    | Y    |        |      |      |         |        |                  |       |       |       |
| PEPR7       | <i>Pedicularis procera</i>                                  | <i>Pedicularis grayi</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| SCPA10      | <i>Sclerocactus papyracanthus</i>                           | <i>Pediocactus papyracanthus</i>                         |      |        |      |      |         |        |                  |       |       |       |
| PEAT2       | <i>Pellaea atropurpurea</i>                                 | <i>Pellaea atropurpurea</i>                              |      |        |      |      |         |        |                  |       |       |       |
| ARFE5       | <i>Argyrochosma fendleri</i>                                | <i>Pellaea fendleri</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| ARLIL       | <i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>         | <i>Pellaea limitanea</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| PEMUM       | <i>Pellaea mucronata</i> ssp. <i>mucronata</i>              | <i>Pellaea longimucronata</i>                            |      |        |      |      |         |        |                  |       |       |       |
| PEBAT       | <i>Penstemon barbatus</i> ssp. <i>torreyi</i>               | <i>Penstemon barbatus</i> subsp. <i>torreyi</i>          |      | Y      | Y    |      | Y       |        |                  |       |       |       |
| PEEA        | <i>Penstemon eatonii</i>                                    | <i>Penstemon eatonii</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| PEFE        | <i>Penstemon fendleri</i>                                   | <i>Penstemon fendleri</i>                                |      |        |      |      |         |        |                  |       |       |       |
| PEJA        | <i>Penstemon jamesii</i>                                    | <i>Penstemon jamesii</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| PELE2       | <i>Penstemon lentus</i>                                     | <i>Penstemon lentus</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| PELIC       | <i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>      | <i>Penstemon linarioides</i> subsp. <i>coloradoensis</i> |      |        |      |      |         |        |                  |       |       |       |
| PEOL        | <i>Penstemon oliganthus</i>                                 | <i>Penstemon oliganthus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| PERY        | <i>Penstemon rydbergii</i>                                  | <i>Penstemon rydbergii</i>                               |      |        |      |      |         |        |                  |       |       |       |
| PESE11      | <i>Penstemon secundiflorus</i>                              | <i>Penstemon secundiflorus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| PEV14       | <i>Penstemon virgatus</i>                                   | <i>Penstemon virgatus</i>                                |      |        |      |      |         |        |                  |       |       |       |
| PEWH        | <i>Penstemon whippleanus</i>                                | <i>Penstemon whippleanus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| PECA10      | <i>Pericome caudata</i>                                     | <i>Pericome caudata</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| DACAC       | <i>Dalea candida</i> var. <i>candida</i>                    | <i>Petalostemum candidum</i>                             |      | Y      | Y    |      |         |        |                  |       |       |       |
| DACOC       | <i>Dalea compacta</i> var. <i>compacta</i>                  | <i>Petalostemum compactum</i>                            |      |        |      |      |         |        |                  |       |       |       |
| DAEX2       | <i>Dalea exigua</i>                                         | <i>Petalostemum exile</i>                                |      |        |      |      |         |        |                  |       |       |       |

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|-------------|-----------------------------------------------------------|-----------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| DAPUP       | <i>Dalea purpurea</i> var. <i>purpurea</i>                | <i>Petalostemum purpureum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| DAVIV       | <i>Dalea villosa</i> var. <i>villosa</i>                  | <i>Petalostemum villosum</i>                              |      |        |      |      |         |        |                  |       |       |       |
| PHCO        | <i>Phacelia coerulea</i>                                  | <i>Phacelia coerulea</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| PHCRC       | <i>Phacelia crenulata</i> var. <i>corrugata</i>           | <i>Phacelia corrugata</i>                                 |      |        |      |      |         |        |                  | Y     |       |       |
| PHHE2       | <i>Phacelia heterophylla</i>                              | <i>Phacelia heterophylla</i>                              |      |        |      |      |         |        |                  |       |       |       |
| PHIN        | <i>Phacelia integrifolia</i>                              | <i>Phacelia integrifolia</i>                              |      |        |      |      |         |        |                  |       |       |       |
| PHEG        | <i>Phacelia egea</i>                                      | <i>Phacelia magellanica</i>                               |      |        |      |      |         |        |                  |       |       |       |
| PHNE3       | <i>Phacelia neomexicana</i>                               | <i>Phacelia neomexicana</i> var. <i>neomexicana</i>       |      |        |      |      |         |        |                  |       |       |       |
| PHAN3       | <i>Phaseolus angustissimus</i>                            | <i>Phaseolus angustissimus</i>                            | Y    |        |      |      |         |        |                  |       |       |       |
| STLE6       | <i>Strophostyles leiosperma</i>                           | <i>Phaseolus leiospermus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| PHMIM       | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> | <i>Philadelphus microphyllus</i> var. <i>microphyllus</i> |      |        |      |      |         |        |                  |       |       |       |
| PHAL2       | <i>Phleum alpinum</i>                                     | <i>Phleum alpinum</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| PHPR3       | <i>Phleum pratense</i>                                    | <i>Phleum pratense</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| PHLO2       | <i>Phlox longifolia</i>                                   | <i>Phlox longifolia</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| PHJU        | <i>Phoradendron juniperinum</i>                           | <i>Phoradendron juniperum</i>                             |      |        |      | Y    |         |        |                  | Y     |       |       |
| PHAU7       | <i>Phragmites australis</i>                               | <i>Phragmites communis</i>                                |      | Y      |      |      |         |        |                  |       |       |       |
| PHSUN       | <i>Physalis subulata</i> var. <i>neomexicana</i>          | <i>Physalis foetens</i> var. <i>neomexicana</i>           |      |        |      |      |         |        |                  |       |       |       |
| PHHEF       | <i>Physalis hederifolia</i> var. <i>fendleri</i>          | <i>Physalis hederifolia</i> var. <i>cordifolia</i>        |      |        |      |      |         |        |                  |       |       | Y     |
| PHPU7       | <i>Physalis pubescens</i>                                 | <i>Physalis pubescens</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| PHMO4       | <i>Physocarpus monogynus</i>                              | <i>Physocarpus mongynus</i>                               |      |        |      |      |         |        |                  |       |       |       |
| PIEN        | <i>Picea engelmannii</i>                                  | <i>Picea engelmannii</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| PIPU        | <i>Picea pungens</i>                                      | <i>Picea pungens</i>                                      |      | Y      |      |      |         |        |                  |       |       |       |
| PIED        | <i>Pinus edulis</i>                                       | <i>Pinus edulis</i>                                       | Y    | Y      |      |      |         |        |                  | Y     | Y     |       |
| PIFL2       | <i>Pinus flexilis</i>                                     | <i>Pinus flexilis</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| PIPOS       | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             | <i>Pinus ponderosa</i> var. <i>scopulorum</i>             |      |        |      |      |         |        |                  | Y     |       |       |
| PLAR2       | <i>Plantago argyraea</i>                                  | <i>Plantago argyraea</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| PLMA2       | <i>Plantago major</i>                                     | <i>Plantago major</i>                                     |      |        |      |      |         |        |                  | Y     |       |       |
| PLPA2       | <i>Plantago patagonica</i>                                | <i>Plantago purshii</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| POAN        | <i>Poa annua</i>                                          | <i>Poa annua</i>                                          |      |        |      |      |         |        |                  |       |       |       |
| POBI        | <i>Poa bigelovii</i>                                      | <i>Poa bigelovii</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| POCO        | <i>Poa compressa</i>                                      | <i>Poa compressa</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| POFE        | <i>Poa fendleriana</i>                                    | <i>Poa fendleriana</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| POIN        | <i>Poa interior</i>                                       | <i>Poa interior</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| POFEF       | <i>Poa fendleriana</i> ssp. <i>fendleriana</i>            | <i>Poa longiligula</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| POSE        | <i>Poa secunda</i>                                        | <i>Poa nevadensis</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| POPA2       | <i>Poa palustris</i>                                      | <i>Poa palustris</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| POABP       | <i>Poa abbreviata</i> ssp. <i>pattersonii</i>             | <i>Poa pattersonii</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| POPR        | <i>Poa pratensis</i>                                      | <i>Poa pratensis</i>                                      |      |        |      |      |         |        |                  |       |       |       |

## ETHNOGRAPHIC INFORMATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                          | Martin and Hutchins (1980)                                | Zuni | Navajo | Tewa | Hopi | Cochiti | Isleta | Mescalero Apache | Acoma | Jemez | Other |
|-------------|-----------------------------------------------------------|-----------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| PODOT       | <i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>      | <i>Polanisia trachysperma</i>                             | Y    |        |      |      |         |        |                  |       |       |       |
| POFOF3      | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> | <i>Polemonium foliosissimum</i> var. <i>foliosissimum</i> |      |        |      |      |         |        |                  |       |       |       |
| POAMS       | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        | <i>Polygonum amphibium</i> var. <i>stipulaceum</i>        |      |        |      |      |         |        |                  |       |       |       |
| POAV        | <i>Polygonum aviculare</i>                                | <i>Polygonum aviculare</i>                                |      |        |      |      |         |        |                  |       |       |       |
| POBI6       | <i>Polygonum bistortoides</i>                             | <i>Polygonum bistortoides</i>                             |      |        |      |      |         |        |                  |       |       |       |
| POCO10      | <i>Polygonum convolvulus</i>                              | <i>Polygonum convolvulus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| PODO4       | <i>Polygonum douglasii</i>                                | <i>Polygonum douglasii</i>                                |      |        |      |      |         |        |                  |       |       |       |
| PODOD4      | <i>Polygonum douglasii</i> ssp. <i>douglasii</i>          | <i>Polygonum montanum</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| POPE3       | <i>Polygonum persicaria</i>                               | <i>Polygonum persicaria</i>                               |      |        |      |      |         |        |                  |       |       |       |
| PORA3       | <i>Polygonum ramosissimum</i>                             | <i>Polygonum ramosissimum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| PODOJ2      | <i>Polygonum douglasii</i> ssp. <i>johnstonii</i>         | <i>Polygonum sawatchense</i>                              |      |        |      |      |         |        |                  |       |       |       |
| POMO5       | <i>Polypogon monspeliensis</i>                            | <i>Polypogon monspeliensis</i>                            |      |        |      |      |         |        |                  |       |       |       |
| POAN3       | <i>Populus angustifolia</i>                               | <i>Populus angustifolia</i>                               |      | Y      |      |      |         |        |                  |       |       |       |
| PODEW       | <i>Populus deltoides</i> ssp. <i>wislizeni</i>            | <i>Populus fremontii</i> var. <i>wislizenii</i>           |      |        |      |      |         |        |                  | Y     |       |       |
| POTR5       | <i>Populus tremuloides</i>                                | <i>Populus tremuloides</i> var. <i>aurea</i>              |      |        | Y    |      |         | Y      |                  |       |       |       |
| POOL        | <i>Portulaca oleracea</i>                                 | <i>Portulaca oleracea</i>                                 |      | Y      | Y    |      | Y       |        | Y                | Y     |       |       |
| ARAN7       | <i>Argentina anserina</i>                                 | <i>Potentilla anserina</i>                                |      |        |      |      |         |        |                  |       |       |       |
| POARC       | <i>Potentilla arguta</i> ssp. <i>convallaria</i>          | <i>Potentilla arguta</i> subsp. <i>convallaria</i>        |      |        |      |      |         |        |                  |       |       |       |
| POCO13      | <i>Potentilla concinna</i>                                | <i>Potentilla concinna</i>                                |      |        |      |      |         |        |                  |       |       |       |
| POCR4       | <i>Potentilla crinita</i>                                 | <i>Potentilla crinita</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| PEFL15      | <i>Pentaphylloides floribunda</i>                         | <i>Potentilla fruticosa</i>                               |      |        |      |      |         |        |                  |       | Y     |       |
| POHI6       | <i>Potentilla hippiana</i>                                | <i>Potentilla hippiana</i>                                |      |        |      |      |         |        |                  |       |       |       |
| PONO3       | <i>Potentilla norvegica</i>                               | <i>Potentilla norvegica</i>                               |      |        |      |      |         |        |                  |       |       |       |
| POPE8       | <i>Potentilla pennsylvanica</i>                           | <i>Potentilla pennsylvanica</i>                           |      | Y      |      |      |         |        |                  |       |       |       |
| POPU9       | <i>Potentilla pulcherrima</i>                             | <i>Potentilla pulcherrima</i>                             |      |        |      |      |         |        |                  |       |       |       |
| POTHT       | <i>Potentilla thurberi</i> var. <i>thurberi</i>           | <i>Potentilla thurberi</i> var. <i>thurberi</i>           |      |        |      |      |         |        |                  |       |       |       |
| PRRU        | <i>Primula rusbyi</i>                                     | <i>Primula rusbyi</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| PRVU        | <i>Prunella vulgaris</i>                                  | <i>Prunella vulgaris</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| PRAM        | <i>Prunus americana</i>                                   | <i>Prunus americana</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| PREME       | <i>Prunus emarginata</i> var. <i>emarginata</i>           | <i>Prunus emarginata</i> var. <i>emarginata</i>           |      |        |      |      |         |        |                  |       |       |       |
| PRVIM       | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          | <i>Prunus virginiana</i> var. <i>melanocarpa</i>          |      | Y      |      |      |         |        |                  | Y     |       |       |
| PSMO        | <i>Pseudocymopterus montanus</i>                          | <i>Pseudocymopterus montanus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| PSMEG       | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           | <i>Pseudotsuga menziesii</i> var. <i>glauca</i>           |      |        |      |      |         |        |                  |       |       |       |
| PSTA        | <i>Psilostrophe tagetina</i>                              | <i>Psilostrophe tagetina</i>                              | Y    |        |      |      |         |        |                  | Y     |       |       |
| PEHYH       | <i>Pediomelum hypogaeum</i> var. <i>hypogaeum</i>         | <i>Psoralea hypogaea</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| PSLA3       | <i>Psoralea lanceolatum</i>                               | <i>Psoralea lanceolata</i>                                |      |        |      |      |         |        |                  |       |       |       |
| PSTE5       | <i>Psoralea tenuiflorum</i>                               | <i>Psoralea tenuiflora</i>                                | Y    | Y      |      |      |         |        |                  |       |       |       |
| PTTRA       | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>         | <i>Ptelea trifoliata</i> ssp. <i>angustifolia</i>         |      |        |      |      |         |        |                  |       |       |       |

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|-------------|-----------------------------------------------------------|-------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| PTAQP2      | <i>Pteridium aquilinum</i> var. <i>pubescens</i>          | <i>Pteridium aquilinum</i> var. <i>pubescens</i>      |      |        |      |      |         |        |                  |       |       |       |
| PTAN2       | <i>Pterospora andromedea</i>                              | <i>Pterospora andromedea</i>                          |      |        |      |      |         |        |                  | Y     | Y     |       |
| PUPAM       | <i>Pulsatilla patens</i> ssp. <i>multifida</i>            | <i>Pulsatilla ludoviciana</i>                         |      |        |      |      |         |        |                  |       |       |       |
| PUTR2       | <i>Purshia tridentata</i>                                 | <i>Purshia tridentata</i>                             |      |        |      |      |         |        |                  |       |       |       |
| PYAS        | <i>Pyrola asarifolia</i>                                  | <i>Pyrola asarifolia</i>                              |      |        |      |      |         |        |                  |       |       |       |
| PYCH        | <i>Pyrola chlorantha</i>                                  | <i>Pyrola chlorantha</i>                              |      |        |      |      |         |        |                  |       |       |       |
| PYEL        | <i>Pyrola elliptica</i>                                   | <i>Pyrola elliptica</i>                               |      |        |      |      |         |        |                  |       |       |       |
| PYMI        | <i>Pyrola minor</i>                                       | <i>Pyrola minor</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| PYPI2       | <i>Pyrola picta</i>                                       | <i>Pyrola picta</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| PYPA4       | <i>Pyrrhopappus pauciflorus</i>                           | <i>Pyrrhopappus multicaulis</i>                       |      |        |      |      |         |        |                  |       |       |       |
| QUGA        | <i>Quercus gambelii</i>                                   | <i>Quercus gambelii</i>                               |      | Y      |      | Y    |         |        |                  |       | Y     |       |
| QUGR3       | <i>Quercus grisea</i>                                     | <i>Quercus grisea</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| QUPU        | <i>Quercus pungens</i>                                    | <i>Quercus pungens</i>                                |      |        |      |      |         |        |                  | Y     |       |       |
| QUTU2       | <i>Quercus turbinella</i>                                 | <i>Quercus turbinella</i>                             |      |        |      |      |         |        |                  |       |       |       |
| QUPA4       | <i>Quercus X pauciloba</i>                                | <i>Quercus undulata</i>                               |      |        |      |      |         |        |                  |       |       |       |
| ORSE        | <i>Orthilia secunda</i>                                   | <i>Ramischia secunda</i>                              |      |        |      |      |         |        |                  |       |       |       |
| RAAB        | <i>Ranunculus abortivus</i>                               | <i>Ranunculus abortivus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| RATRT       | <i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i> | <i>Ranunculus aquatilis</i> var. <i>capillaceus</i>   |      |        |      |      |         |        |                  |       |       |       |
| RACA4       | <i>Ranunculus cardiophyllus</i>                           | <i>Ranunculus cardiophyllus</i>                       |      |        |      |      |         |        |                  |       |       |       |
| RACYS       | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>     | <i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> |      |        |      |      |         |        |                  |       |       |       |
| RAIN        | <i>Ranunculus inamoenus</i>                               | <i>Ranunculus inamoenus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| RAMA2       | <i>Ranunculus macounii</i>                                | <i>Ranunculus macounii</i>                            |      |        |      |      |         |        |                  |       |       |       |
| RAMA3       | <i>Ranunculus macranthus</i>                              | <i>Ranunculus macranthus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| RASCM       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>       | <i>Ranunculus sceleratus</i> var. <i>multifidus</i>   |      |        |      |      |         |        |                  |       |       |       |
| RACO3       | <i>Ratibida columnifera</i>                               | <i>Ratibida columnifera</i>                           | Y    |        |      |      |         |        |                  |       |       |       |
| RATA        | <i>Ratibida tagetes</i>                                   | <i>Ratibida tagetes</i>                               |      |        |      |      |         |        |                  |       |       |       |
| RHGL        | <i>Rhus glabra</i>                                        | <i>Rhus glabra</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| TORAR       | <i>Toxicodendron radicans</i> ssp. <i>radicans</i>        | <i>Rhus radicans</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| RHTR        | <i>Rhus trilobata</i>                                     | <i>Rhus trilobata</i>                                 | Y    | Y      | Y    | Y    |         | Y      |                  | Y     | Y     |       |
| RICE        | <i>Ribes cereum</i>                                       | <i>Ribes cereum</i>                                   |      |        |      |      |         |        |                  | Y     |       |       |
| RICEP       | <i>Ribes cereum</i> var. <i>pedicellare</i>               | <i>Ribes inebrians</i>                                | Y    | Y      |      | Y    |         |        |                  |       |       |       |
| RIIN2       | <i>Ribes inerme</i>                                       | <i>Ribes inerme</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| RILE        | <i>Ribes leptanthum</i>                                   | <i>Ribes leptanthum</i>                               |      |        |      |      |         |        |                  |       |       |       |
| RIMO2       | <i>Ribes montigenum</i>                                   | <i>Ribes montigenum</i>                               |      |        |      |      |         |        |                  |       |       |       |
| RIPI        | <i>Ribes pinetorum</i>                                    | <i>Ribes pinetorum</i>                                |      |        |      |      |         |        |                  |       |       |       |
| RIWO        | <i>Ribes wolfii</i>                                       | <i>Ribes wolfii</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| RONE        | <i>Robinia neomexicana</i>                                | <i>Robinia neomexicana</i>                            |      |        |      |      |         |        |                  |       | Y     |       |
| ROIS2       | <i>Rorippa islandica</i>                                  | <i>Rorippa islandica</i>                              |      |        |      |      |         |        |                  |       |       |       |
| RONA2       | <i>Rorippa nasturtium-aquaticum</i>                       | <i>Rorippa nasturtium-aquaticum</i>                   |      |        |      |      |         |        |                  |       |       |       |

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|-------------|--------------------------------------------------------|----------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| ROTE2       | <i>Rorippa teres</i>                                   | <i>Rorippa obtusa</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| ROPAF2      | <i>Rorippa palustris</i> ssp. <i>femaldiana</i>        | <i>Rorippa palustris</i> subsp. <i>glabra</i>            |      |        |      |      |         |        |                  |       |       |       |
| ROPAH       | <i>Rorippa palustris</i> ssp. <i>hispida</i>           | <i>Rorippa palustris</i> subsp. <i>hispida</i>           |      |        |      |      |         |        |                  |       |       |       |
| ROSI2       | <i>Rorippa sinuata</i>                                 | <i>Rorippa sinuata</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| ROSY        | <i>Rorippa sylvestris</i>                              | <i>Rorippa sylvestris</i>                                |      |        |      |      |         |        |                  |       |       |       |
| ROCUT       | <i>Rorippa curvipes</i> var. <i>truncata</i>           | <i>Rorippa truncata</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| RONU        | <i>Rosa nutkana</i>                                    | <i>Rosa nutkana</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>arizonica</i>                |      |        |      |      |         |        |                  |       |       |       |
| ROWOW       | <i>Rosa woodsii</i> var. <i>woodsii</i>                | <i>Rosa woodsii</i> var. <i>fendleri</i>                 |      | Y      | Y    |      |         |        | Y                |       |       |       |
| RUPA        | <i>Rubus parviflorus</i>                               | <i>Rubus parviflorus</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| RUIDS2      | <i>Rubus idaeus</i> ssp. <i>strigosus</i>              | <i>Rubus strigosus</i> var. <i>arizonicus</i>            |      |        |      |      |         |        |                  |       |       |       |
| RUHI2       | <i>Rudbeckia hirta</i>                                 | <i>Rudbeckia hirta</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| RULA3       | <i>Rudbeckia laciniata</i>                             | <i>Rudbeckia laciniata</i>                               |      |        |      |      |         |        |                  |       |       |       |
| RUAC3       | <i>Rumex acetosella</i>                                | <i>Rumex acetosella</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| RUCR        | <i>Rumex crispus</i>                                   | <i>Rumex crispus</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex mexicanus</i>                                   | Y    |        |      |      |         |        |                  | Y     |       |       |
| RUAQF       | <i>Rumex aquaticus</i> var. <i>fenestratus</i>         | <i>Rumex occidentalis</i>                                |      |        |      |      | Y       |        | Y                |       |       |       |
| RUPA5       | <i>Rumex patientia</i>                                 | <i>Rumex patientia</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| RUSAM       | <i>Rumex salicifolius</i> var. <i>mexicanus</i>        | <i>Rumex triangulivalvis</i>                             |      |        |      |      |         |        |                  |       |       |       |
| SABE2       | <i>Salix bebbiana</i>                                  | <i>Salix bebbiana</i>                                    |      |        |      |      |         |        |                  | Y     |       |       |
| SALUC       | <i>Salix lucida</i> ssp. <i>caudata</i>                | <i>Salix caudata</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| SAEX        | <i>Salix exigua</i>                                    | <i>Salix exigua</i>                                      |      |        |      |      |         |        |                  |       |       |       |
| SAIR        | <i>Salix irrorata</i>                                  | <i>Salix irrorata</i>                                    | Y    |        |      |      |         | Y      |                  | Y     |       |       |
| SASC        | <i>Salix scouleriana</i>                               | <i>Salix scouleriana</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| SAPR2       | <i>Salvia pratensis</i> L.                             | <i>Salvia pratensis</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| SARE3       | <i>Salvia reflexa</i>                                  | <i>Salvia reflexa</i>                                    |      |        |      |      | Y       |        |                  |       |       |       |
| SASU7       | <i>Salvia subincisa</i>                                | <i>Salvia subincisa</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| SARAM4      | <i>Sambucus racemosa</i> var. <i>melanocarpa</i>       | <i>Sambucus melanocarpa</i>                              |      |        |      |      |         |        |                  |       |       |       |
| SARAR3      | <i>Sambucus racemosa</i> var. <i>racemosa</i>          | <i>Sambucus microbotrys</i>                              |      |        |      |      |         |        | Y                |       |       |       |
| SAAB        | <i>Sanvitalia abertii</i>                              | <i>Sanvitalia abertii</i>                                |      |        |      |      |         |        |                  |       |       |       |
| SAOF4       | <i>Saponaria officinalis</i>                           | <i>Saponaria officinalis</i>                             |      |        |      |      |         |        |                  |       |       |       |
| SAVE4       | <i>Sarcobatus vermiculatus</i>                         | <i>Sarcobatus vermiculatus</i>                           |      | Y      |      | Y    |         |        |                  | Y     | Y     |       |
| SABRA2      | <i>Saxifraga bronchialis</i> ssp. <i>austromontana</i> | <i>Saxifraga bronchialis</i> subsp. <i>austromontana</i> |      |        |      |      |         |        |                  |       |       |       |
| SARH2       | <i>Saxifraga rhomboidea</i>                            | <i>Saxifraga rhomboidea</i>                              |      |        |      |      |         |        |                  |       |       |       |
| SCPA        | <i>Schedonnardus paniculatus</i>                       | <i>Schedonnardus paniculatus</i>                         |      |        |      |      |         |        |                  |       |       |       |
| SCPU        | <i>Schizachne purpurascens</i>                         | <i>Schizachne purpurascens</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SCBR2       | <i>Scleropogon brevifolius</i>                         | <i>Scleropogon brevifolius</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SCCA11      | <i>Schoenoplectus californicus</i>                     | <i>Scripus californicus</i>                              |      |        |      |      |         |        |                  |       |       |       |

# ETHNOGRAPHIC INFORMATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                      | Martin and Hutchins (1980)                         | Zuni | Navajo | Tewa | Hopi | Cochiti | Isleta | Mescalero Apache | Acoma | Jemez | Other |
|-------------|-------------------------------------------------------|----------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| SECO        | <i>Sedum cockerellii</i>                              | <i>Sedum cockerellii</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SEAR3       | <i>Senecio arizonicus</i>                             | <i>Senecio arizonicus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| SEAT        | <i>Senecio atratus</i>                                | <i>Senecio atratus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| SEBIB       | <i>Senecio bigelovii</i> var. <i>bigelovii</i>        | <i>Senecio bigelovii</i> var. <i>bigelovii</i>     |      |        |      |      |         |        |                  |       |       |       |
| SECR        | <i>Senecio crassulus</i>                              | <i>Senecio crassulus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SECY        | <i>Senecio cymbalarioides</i>                         | <i>Senecio cymbalarioides</i>                      |      |        |      |      |         |        |                  |       |       |       |
| SEFLF       | <i>Senecio flaccidus</i> var. <i>flaccidus</i>        | <i>Senecio douglasii</i> var. <i>longilobus</i>    |      |        |      |      |         |        |                  |       |       |       |
| SEERM       | <i>Senecio eremophilus</i> var. <i>macdougalii</i>    | <i>Senecio eremophilus</i> var. <i>macdougalii</i> |      |        |      |      |         |        |                  |       |       |       |
| SENE        | <i>Senecio neomexicanus</i> var. <i>neomexicanus</i>  | <i>Senecio eurypterus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| SEFE        | <i>Senecio fendleri</i>                               | <i>Senecio fendleri</i>                            |      |        |      |      |         |        |                  | Y     |       |       |
| SESPM       | <i>Senecio spartioides</i> var. <i>multicapitatus</i> | <i>Senecio multicapitatus</i>                      | Y    |        |      | Y    |         |        |                  |       |       |       |
| SEMU3       | <i>Senecio multilobatus</i>                           | <i>Senecio multilobatus</i>                        |      |        |      |      |         |        |                  |       |       |       |
| SENE4       | <i>Senecio neomexicanus</i>                           | <i>Senecio neomexicanus</i>                        |      |        |      |      |         |        |                  |       |       |       |
| SEPA5       | <i>Senecio pauperculus</i>                            | <i>Senecio pauperculus</i>                         |      |        |      |      |         |        |                  |       |       |       |
| SEPS2       | <i>Senecio pseudoaureus</i>                           | <i>Senecio pseudoaureus</i>                        |      |        |      |      |         |        |                  |       |       |       |
| SESP3       | <i>Senecio spartioides</i>                            | <i>Senecio spartioides</i>                         |      |        |      |      |         |        |                  | Y     |       |       |
| SETR        | <i>Senecio triangularis</i>                           | <i>Senecio triangularis</i>                        |      |        |      |      |         |        |                  |       |       |       |
| SEWE2       | <i>Senecio werneriiifolius</i>                        | <i>Senecio werneriiifolius</i>                     |      |        |      |      |         |        |                  |       |       |       |
| SEWO        | <i>Senecio wootonii</i>                               | <i>Senecio wootonii</i>                            |      |        |      |      |         |        |                  |       |       |       |
| SEPA10      | <i>Setaria parviflora</i>                             | <i>Setaria geniculata</i>                          |      |        |      |      |         |        |                  |       |       |       |
| PEAM4       | <i>Pennisetum americanum</i>                          | <i>Setaria lutescens</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SEVU2       | <i>Setaria vulpiseta</i>                              | <i>Setaria macrostachya</i>                        |      |        |      |      |         |        |                  |       |       |       |
| SEVI4       | <i>Setaria viridis</i>                                | <i>Setaria viridis</i>                             |      |        |      |      |         |        |                  |       |       |       |
| SICA3       | <i>Sidalcea candida</i>                               | <i>Sidalcea candida</i>                            |      |        |      |      |         |        |                  |       |       |       |
| SIAN2       | <i>Silene antirrhina</i>                              | <i>Silene antirrhina</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SINO        | <i>Silene noctiflora</i>                              | <i>Silene noctiflora</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SISC7       | <i>Silene scouleri</i>                                | <i>Silene scouleri</i>                             |      |        |      |      |         |        |                  |       |       |       |
| SIAL2       | <i>Sisymbrium altissimum</i>                          | <i>Sisymbrium altissimum</i>                       |      | Y      |      |      |         |        |                  |       |       |       |
| SIIR        | <i>Sisymbrium irio</i>                                | <i>Sisymbrium iroio</i>                            |      |        |      |      |         |        |                  |       |       |       |
| SCLI        | <i>Schoenocrambe linifolia</i>                        | <i>Sisymbrium linifolium</i>                       |      |        |      |      |         |        |                  |       |       |       |
| SIDE4       | <i>Sisyrinchium demissum</i>                          | <i>Sisyrinchium demissum</i>                       |      |        |      |      |         |        |                  |       |       |       |
| SIMO2       | <i>Sisyrinchium montanum</i>                          | <i>Sisyrinchium montanum</i>                       |      |        |      |      |         |        |                  |       |       |       |
| ELELE       | <i>Elymus elymoides</i> ssp. <i>elymoides</i>         | <i>Sitanion hystrix</i>                            |      |        |      |      |         |        |                  |       |       |       |
| MARAR       | <i>Maianthemum racemosum</i> ssp. <i>racemosum</i>    | <i>Smilacina racemosa</i>                          |      |        |      |      |         |        |                  |       |       |       |
| MAST4       | <i>Maianthemum stellatum</i>                          | <i>Smilacina stellata</i>                          |      |        |      |      |         |        |                  |       |       |       |
| SOAM        | <i>Solanum americanum</i>                             | <i>Solanum americanum</i>                          |      |        |      |      |         |        |                  |       |       |       |
| SODO        | <i>Solanum douglasii</i>                              | <i>Solanum douglasii</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SOEL        | <i>Solanum elaeagnifolium</i>                         | <i>Solanum elaeagnifolium</i>                      | Y    |        |      | Y    | Y       |        |                  | Y     |       |       |
| SOJA        | <i>Solanum jamesii</i>                                | <i>Solanum jamesii</i>                             |      |        |      | Y    |         |        | Y                | Y     |       | Y     |

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|-------------|-----------------------------------------------------------------|-------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| SOPT3       | <i>Solanum ptychanthum</i>                                      | <i>Solanum nigrum</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| SORO        | <i>Solanum rostratum</i>                                        | <i>Solanum rostratum</i>                              | Y    |        |      |      |         |        |                  |       |       |       |
| SOSA        | <i>Solanum sarrachoides</i>                                     | <i>Solanum sarachoides</i>                            |      |        |      |      |         |        |                  |       |       |       |
| SOTR        | <i>Solanum triflorum</i>                                        | <i>Solanum triflorum</i>                              | Y    |        |      | Y    |         |        |                  | Y     |       |       |
| SOCAS5      | <i>Solidago canadensis</i> var. <i>scabra</i>                   | <i>Solidago altissima</i>                             |      |        |      |      |         |        |                  |       |       |       |
| SOCAC3      | <i>Solidago canadensis</i> var. <i>canadensis</i>               | <i>Solidago canadensis</i> var. <i>canadensis</i>     | Y    |        |      |      |         |        |                  |       |       |       |
| SOCAG       | <i>Solidago canadensis</i> var. <i>gilvocanescens</i>           | <i>Solidago canadensis</i> var. <i>gilvocanescens</i> |      |        |      |      |         |        |                  |       |       |       |
| SOMO        | <i>Solidago mollis</i>                                          | <i>Solidago mollis</i>                                |      |        |      |      |         |        |                  |       |       |       |
| SOMU        | <i>Solidago multiradiata</i>                                    | <i>Solidago multiradiata</i>                          |      |        |      |      |         |        |                  |       |       |       |
| EUOC4       | <i>Euthamia occidentalis</i>                                    | <i>Solidago occidentalis</i>                          |      |        |      |      |         |        |                  |       |       |       |
| SOSPP       | <i>Solidago speciosa</i> var. <i>pallida</i>                    | <i>Solidago pallida</i>                               |      |        |      |      |         |        |                  |       |       |       |
| PEPUP       | <i>Petradoria pumila</i> ssp. <i>pumila</i>                     | <i>Solidago petradoria</i>                            |      |        |      | Y    |         |        |                  |       |       |       |
| SOVE6       | <i>Solidago velutina</i>                                        | <i>Solidago sparsiflora</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SOSIS3      | <i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i> | <i>Solidago spathulata</i> var. <i>neomexicana</i>    |      |        |      |      |         |        |                  |       |       |       |
| SOWRW       | <i>Solidago wrightii</i> var. <i>wrightii</i>                   | <i>Solidago wrightii</i> var. <i>wrightii</i>         |      |        |      |      |         |        |                  |       |       |       |
| SOAS        | <i>Sonchus asper</i>                                            | <i>Sonchus asper</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| SOOL        | <i>Sonchus oleraceus</i>                                        | <i>Sonchus oleraceus</i>                              |      |        |      |      |         |        |                  |       |       |       |
| SONU        | <i>Sophora nuttalliana</i>                                      | <i>Sophora nuttalliana</i>                            |      |        |      |      |         |        |                  |       |       |       |
| SONU2       | <i>Sorghastrum nutans</i>                                       | <i>Sorghastrum nutans</i>                             |      |        |      |      |         |        |                  |       |       |       |
| SPSAS       | <i>Spergularia salina</i> var. <i>salina</i>                    | <i>Spergularia marina</i>                             |      |        |      |      |         |        |                  |       |       |       |
| SPAN3       | <i>Sphaeralcea angustifolia</i>                                 | <i>Sphaeralcea angustifolia</i> var. <i>cuspidata</i> |      |        |      |      |         |        |                  |       |       |       |
| SPCOE       | <i>Sphaeralcea coccinea</i> ssp. <i>elata</i>                   | <i>Sphaeralcea coccinea</i> var. <i>elata</i>         |      |        |      |      | Y       |        |                  |       |       |       |
| SPFEF       | <i>Sphaeralcea fendleri</i> ssp. <i>fendleri</i>                | <i>Sphaeralcea fendleri</i> var. <i>fendleri</i>      |      |        |      |      |         |        |                  |       |       |       |
| SPIN2       | <i>Sphaeralcea incana</i>                                       | <i>Sphaeralcea incana</i>                             |      |        | Y    |      |         |        |                  |       |       |       |
| SPIN3       | <i>Sphenopholis intermedia</i>                                  | <i>Sphenopholis intermedia</i>                        |      |        |      |      |         |        |                  |       |       |       |
| SPAI        | <i>Sporobolus airoides</i>                                      | <i>Sporobolus airoides</i>                            |      |        |      | Y    |         |        |                  |       |       |       |
| SPCOC2      | <i>Sporobolus compositus</i> var. <i>compositus</i>             | <i>Sporobolus asper</i>                               |      |        |      |      |         |        |                  |       |       |       |
| SPCO4       | <i>Sporobolus contractus</i>                                    | <i>Sporobolus contractus</i>                          |      |        |      |      |         |        |                  |       |       |       |
| SPCR        | <i>Sporobolus cryptandrus</i>                                   | <i>Sporobolus cryptandrus</i>                         |      |        |      |      |         |        |                  |       |       |       |
| SPNE        | <i>Sporobolus nealleyi</i>                                      | <i>Sporobolus nealleyi</i>                            |      |        |      |      |         |        |                  |       |       |       |
| SPT5        | <i>Sporobolus texanus</i>                                       | <i>Sporobolus texanus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| STPA        | <i>Stachys palustris</i>                                        | <i>Stachys palustris</i>                              |      |        |      |      |         |        |                  |       |       |       |
| STPI        | <i>Stanleya pinnata</i>                                         | <i>Stanleya pinnata</i>                               | Y    | Y      |      |      |         |        |                  |       |       |       |
| PSJA2       | <i>Pseudostellaria jamesiana</i>                                | <i>Stellaria jamesiana</i>                            |      |        |      |      |         |        |                  |       |       |       |
| STLO        | <i>Stellaria longifolia</i>                                     | <i>Stellaria longifolia</i>                           |      |        |      |      |         |        |                  |       |       |       |
| STLO2       | <i>Stellaria longipes</i>                                       | <i>Stellaria longipes</i>                             |      |        |      |      |         |        |                  |       |       |       |
| STPA4       | <i>Stephanomeria pauciflora</i>                                 | <i>Stephanomeria pauciflora</i>                       |      |        |      |      |         |        |                  |       |       |       |
| STTE2       | <i>Stephanomeria tenuifolia</i>                                 | <i>Stephanomeria tenuifolia</i>                       |      |        |      |      |         |        |                  |       |       |       |
| ACNED       | <i>Achnatherum nelsonii</i> ssp. <i>dorei</i>                   | <i>Stipa columbiana</i>                               |      |        |      |      |         |        |                  |       |       |       |



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|-------------|-------------------------------------------------------------|------------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| HECOC8      | <i>Hesperostipa comata</i> ssp. <i>comata</i>               | <i>Stipa comata</i>                                        |      |        |      |      |         |        |                  |       |       |       |
| ACEM4       | <i>Achnatherum eminens</i>                                  | <i>Stipa eminens</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| ACLE9       | <i>Achnatherum lettermanii</i>                              | <i>Stipa lettermanii</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| HENE5       | <i>Hesperostipa neomexicana</i>                             | <i>Stipa neomexicana</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| ACRO7       | <i>Achnatherum robustum</i>                                 | <i>Stipa robusta</i>                                       |      |        |      |      |         |        |                  |       |       |       |
| STCO6       | <i>Streptanthus cordatus</i>                                | <i>Streptanthus cordatus</i>                               |      |        |      |      |         |        |                  |       |       |       |
| STAM2       | <i>Streptopus amplexifolius</i>                             | <i>Streptopus amplexifolius</i>                            |      |        |      |      |         |        |                  |       |       |       |
| FRSP        | <i>Frasera speciosa</i>                                     | <i>Swertia radiata</i>                                     |      |        |      |      |         |        |                  |       |       |       |
| SYOC        | <i>Symphoricarpos occidentalis</i>                          | <i>Symphoricarpos occidentalis</i>                         |      |        |      |      |         |        |                  |       |       |       |
| SYOR2       | <i>Symphoricarpos oreophilus</i>                            | <i>Symphoricarpos oreophilus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| SYOR        | <i>Symphoricarpos orbiculatus</i>                           | <i>Symphoricarpos rotundifolius</i>                        |      |        |      |      |         |        |                  |       |       |       |
| TAPA3       | <i>Talinum parviflorum</i>                                  | <i>Talinum parviflorum</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| TAGA        | <i>Tamarix gallica</i>                                      | <i>Tamarix gallica</i>                                     |      |        |      |      |         |        |                  | Y     |       |       |
| TACH2       | <i>Tamarix chinensis</i>                                    | <i>Tamarix pentandra</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| TALA2       | <i>Taraxacum laevigatum</i>                                 | <i>Taraxacum laevigatum</i>                                |      |        |      |      |         |        |                  |       |       |       |
| TAOF        | <i>Taraxacum officinale</i>                                 | <i>Taraxacum officinale</i>                                |      |        | Y    |      |         |        | Y                |       |       |       |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i>                                |      |        |      | Y    |         |        |                  |       |       |       |
| TECA2       | <i>Tetradymia canescens</i>                                 | <i>Tetradymia canescens</i> var. <i>inermis</i>            |      | Y      |      |      |         |        |                  |       |       |       |
| THFEF       | <i>Thalictrum fendleri</i> var. <i>fendleri</i>             | <i>Thalictrum fendleri</i> var. <i>fendleri</i>            |      | Y      |      |      |         |        |                  | Y     |       |       |
| THFII       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>       | <i>Thelesperma filifolium</i> var. <i>intermedium</i>      |      |        |      |      |         |        |                  |       |       |       |
| THME        | <i>Thelesperma megapotamicum</i>                            | <i>Thelesperma megapotamicum</i>                           |      |        |      |      |         |        |                  |       |       |       |
| THFIF       | <i>Thelesperma filifolium</i> var. <i>filifolium</i>        | <i>Thelesperma trifidum</i>                                |      |        |      |      |         |        |                  |       |       |       |
| THINI       | <i>Thelypodium integrifolium</i> ssp. <i>integrifolium</i>  | <i>Thelypodium integrifolium</i> var. <i>integrifolium</i> |      |        |      |      |         |        |                  |       |       |       |
| THWR        | <i>Thelypodium wrightii</i>                                 | <i>Thelypodium wrightii</i>                                | Y    | Y      |      |      |         |        |                  |       |       |       |
| THMO6       | <i>Thermopsis montana</i>                                   | <i>Thermopsis montanum</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| THDI4       | <i>Thermopsis divaricarpa</i>                               | <i>Thermopsis pinetorum</i>                                |      |        |      |      |         |        |                  |       |       |       |
| THMOM       | <i>Thlaspi montanum</i> var. <i>montanum</i>                | <i>Thlaspi alpestre</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| TOPAP3      | <i>Torreyochloa pallida</i> var. <i>pauciflora</i>          | <i>Torreyochloa pauciflora</i>                             |      |        |      |      |         |        |                  |       |       |       |
| TOAN        | <i>Townsendia annua</i>                                     | <i>Townsendia annua</i>                                    |      |        |      |      |         |        |                  |       |       |       |
| TOEX        | <i>Townsendia eximia</i>                                    | <i>Townsendia eximia</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| TOFO        | <i>Townsendia formosa</i>                                   | <i>Townsendia formosa</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| TOIN        | <i>Townsendia incana</i>                                    | <i>Townsendia incana</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| TOEX2       | <i>Townsendia exscapa</i>                                   | <i>Townsendia exscapa</i>                                  |      | Y      |      |      |         |        |                  |       |       |       |
| TRNE        | <i>Tragia nepetifolia</i>                                   | <i>Tragia nepetaefolia</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| TRDU        | <i>Tragopogon dubius</i>                                    | <i>Tragopogon dubius</i>                                   |      |        |      |      |         |        |                  |       |       |       |
| TRPR        | <i>Tragopogon pratensis</i>                                 | <i>Tragopogon pratensis</i>                                |      |        |      |      |         |        |                  |       |       |       |
| TRCAO       | <i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i> | <i>Trautvetteria grandis</i>                               |      |        |      |      |         |        |                  |       |       |       |
| TRTE        | <i>Tribulus terrestris</i>                                  | <i>Tribulus terrestris</i>                                 |      |        |      |      |         |        |                  |       |       |       |
| ERPU8       | <i>Erioneuron pulchellum</i>                                | <i>Tridens pulchellus</i>                                  |      |        |      |      |         |        |                  |       |       |       |

# ETHNOGRAPHIC INFORMATION CON'T

| USDA Symbol | USDA NRCS PLANTS                                           | Martin and Hutchins (1980)                           | Zuni | Navajo | Tewa | Hopi | Cochiti | Isieta | Mescalero Apache | Acoma | Jemez | Other |
|-------------|------------------------------------------------------------|------------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| TRDA2       | <i>Trifolium dasyphyllum</i>                               | <i>Trifolium dasyphyllum</i>                         |      |        |      |      |         |        |                  |       |       |       |
| TRHY        | <i>Trifolium hybridum</i>                                  | <i>Trifolium hybridum</i>                            |      |        |      |      |         |        |                  |       |       |       |
| TRMUL       | <i>Trifolium mucronatum</i> ssp. <i>lacerum</i>            | <i>Trifolium lacerum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| TRPR2       | <i>Trifolium pratense</i>                                  | <i>Trifolium pratense</i>                            |      |        |      |      |         |        |                  |       |       |       |
| TRCA5       | <i>Trifolium campestre</i>                                 | <i>Trifolium procumbens</i>                          |      |        |      |      |         |        |                  |       |       |       |
| TRRE3       | <i>Trifolium repens</i>                                    | <i>Trifolium repens</i>                              |      |        |      |      |         |        |                  |       |       |       |
| TRPE4       | <i>Triodanis perfoliata</i>                                | <i>Triodanis perfoliata</i>                          |      |        |      |      |         |        |                  |       |       |       |
| TRMO5       | <i>Trisetum montanum</i>                                   | <i>Trisetum montanum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| TRSP2       | <i>Trisetum spicatum</i>                                   | <i>Trisetum spicatum</i>                             |      |        |      |      |         |        |                  |       |       |       |
| TYLA        | <i>Typha latifolia</i>                                     | <i>Typha latifolia</i>                               |      | Y      |      |      |         |        | Y                |       |       |       |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica dioica-procera</i>                         |      |        |      |      |         |        |                  |       |       |       |
| URGR        | <i>Urtica gracilentia</i>                                  | <i>Urtica gracilentia</i>                            |      |        |      |      |         |        |                  |       |       |       |
| URDIG       | <i>Urtica dioica</i> ssp. <i>gracilis</i>                  | <i>Urtica gracilis</i>                               |      |        |      |      |         |        |                  |       |       |       |
| VAMY2       | <i>Vaccinium myrtillus</i>                                 | <i>Vaccinium myrtillus</i>                           |      |        |      |      |         |        |                  |       |       |       |
| VAAR3       | <i>Valeriana arizonica</i>                                 | <i>Valeriana arizonica</i>                           |      |        |      |      |         |        |                  |       |       |       |
| VAACA       | <i>Valeriana acutiloba</i> var. <i>acutiloba</i>           | <i>Valeriana capitata</i> subsp. <i>acutiloba</i>    |      |        |      |      |         |        |                  |       |       |       |
| VECA2       | <i>Veratrum californicum</i>                               | <i>Veratrum californicum</i>                         |      |        |      |      |         |        |                  |       |       |       |
| VETH        | <i>Verbascum thapsus</i>                                   | <i>Verbascum thapsus</i>                             |      |        |      |      |         |        |                  |       |       |       |
| GLBIB       | <i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i> | <i>Verbena bipinnatifida</i>                         |      |        |      |      |         |        |                  |       |       |       |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena bracteata</i>                             |      |        |      |      |         |        |                  |       |       |       |
| VEBR        | <i>Verbena bracteata</i>                                   | <i>Verbena imbricata</i>                             |      |        |      |      |         |        |                  |       |       |       |
| VEMA        | <i>Verbena macdougalii</i>                                 | <i>Verbena macdougalii</i>                           |      |        |      |      |         |        |                  |       |       |       |
| GLWR        | <i>Glandularia wrightii</i>                                | <i>Verbena wrightii</i>                              |      |        |      |      |         |        |                  |       |       |       |
| VEENE3      | <i>Verbesina encelioides</i> ssp. <i>encelioides</i>       | <i>Verbesina encelioides</i> ssp. <i>encelioides</i> |      |        |      |      |         |        |                  |       |       |       |
| VEAM2       | <i>Veronica americana</i>                                  | <i>Veronica americana</i>                            |      |        |      |      |         |        |                  |       |       |       |
| VEAR        | <i>Veronica arvensis</i> L.                                | <i>Veronica arvensis</i>                             |      |        |      |      |         |        |                  |       |       |       |
| VEPEX2      | <i>Veronica peregrina</i> ssp. <i>xalapensis</i>           | <i>Veronica peregrina</i> var. <i>xalapensis</i>     |      |        |      |      |         |        |                  |       |       |       |
| VESE        | <i>Veronica serpyllifolia</i>                              | <i>Veronica serpyllifolia</i>                        |      |        |      |      |         |        |                  |       |       |       |
| VEWO2       | <i>Veronica wormskjoldii</i>                               | <i>Veronica wormskjoldii</i>                         |      |        |      |      |         |        |                  |       |       |       |
| VILE        | <i>Viburnum lentago</i>                                    | <i>Viburnum lentago</i>                              |      |        |      |      |         |        |                  |       |       |       |
| VIAMA3      | <i>Vicia americana</i> ssp. <i>americana</i>               | <i>Vicia americana</i> var. <i>americana</i>         |      |        |      |      |         |        |                  |       |       |       |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>linearis</i>          |      |        |      |      |         |        |                  |       |       |       |
| VIAMM3      | <i>Vicia americana</i> ssp. <i>minor</i>                   | <i>Vicia americana</i> var. <i>minor</i>             |      |        |      |      |         |        |                  |       |       |       |
| VILE3       | <i>Vicia leucophaea</i>                                    | <i>Vicia leucophaea</i>                              |      |        |      |      |         |        |                  |       |       |       |
| VICO        | <i>Viguiera cordifolia</i>                                 | <i>Viguiera cordifolia</i>                           |      |        |      |      |         |        |                  |       |       |       |
| HEMUM       | <i>Heliomeris multiflora</i> var. <i>multiflora</i>        | <i>Viguiera multiflora</i>                           |      |        |      |      |         |        |                  |       |       |       |
| VIAD        | <i>Viola adunca</i>                                        | <i>Viola adunca</i>                                  |      |        |      |      |         |        |                  |       |       |       |
| VICA4       | <i>Viola canadensis</i>                                    | <i>Viola canadensis</i>                              |      |        |      |      |         |        |                  |       |       |       |
| VISO        | <i>Viola sororia</i>                                       | <i>Viola nephrophylla</i>                            |      |        |      |      |         |        |                  |       |       |       |

## ETHNOGRAPHIC INFORMATION CON'T

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|-------------|--------------------------------------------------|--------------------------------------------------|------|--------|------|------|---------|--------|------------------|-------|-------|-------|
| VIPE2       | <i>Viola pedatifida</i>                          | <i>Viola pedatifida</i>                          |      |        |      |      |         |        |                  |       |       |       |
| VIAR2       | <i>Vitis arizonica</i>                           | <i>Vitis arizonica</i> var. <i>arizonica</i>     |      |        |      |      |         |        |                  |       | Y     |       |
| VIVU        | <i>Vitis vulpina</i>                             | <i>Vitis vulpina</i>                             |      |        |      |      |         |        |                  | Y     |       |       |
|             |                                                  | <i>Woodsia mexicana</i>                          |      |        |      |      |         |        |                  | Y     |       |       |
| WOOR        | <i>Woodsia oregana</i>                           | <i>Woodsia oregana</i>                           |      |        |      |      |         |        |                  |       |       |       |
| XASTC       | <i>Xanthium strumarium</i> var. <i>canadense</i> | <i>Xanthium strumarium</i> var. <i>canadense</i> |      |        |      |      |         |        |                  |       |       |       |
| YUAN2       | <i>Yucca angustissima</i>                        | <i>Yucca angustissima</i>                        |      |        |      | Y    | Y       |        |                  |       |       |       |
| YUBA        | <i>Yucca baccata</i>                             | <i>Yucca baccata</i>                             | Y    |        | Y    | Y    | Y       | Y      | Y                | Y     | Y     |       |
| YUGL        | <i>Yucca glauca</i>                              | <i>Yucca glauca</i>                              | Y    |        | Y    |      |         |        |                  |       | Y     |       |
| ZIGR        | <i>Zinnia grandiflora</i>                        | <i>Zinnia grandiflora</i>                        |      |        |      |      |         |        |                  |       |       |       |
| ZIEL2       | <i>Zygadenus elegans</i>                         | <i>Zygadenus elegans</i>                         |      |        |      |      |         |        |                  | Y     |       |       |

**Key for heading acronyms and abbreviations:**

USDA Symbol = acronym used in USDA NRCS PLANTS database.

USDA NRCS PLANTS = US Department of Agriculture, Natural Resource Conservation Service, PLANTS database.

Martin and Hutchins (1980) = W. C. Martin and C. H. Hutchins, *A Flora of New Mexico*, (G. Cramer, Germany, 1980).