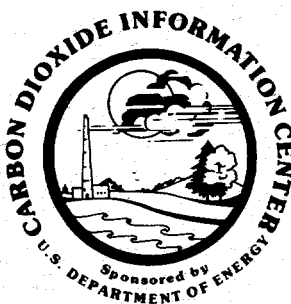


NDP-018



CDIC NUMERIC DATA COLLECTION

Worldwide Organic Soil Carbon and Nitrogen Data

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^{*}Sponsored by the Carbon Dioxide Research Division (CDRD), Office of Basic Energy Sciences (BES), Office of Energy Research, U.S. Department of Energy.

WORLDWIDE ORGANIC SOIL CARBON AND NITROGEN DATA

Contributed by
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Post, W.M., J. Pastor, P.J. Zinke, and A.G. Stangenberger. 1985. Global patterns of soil nitrogen storage. <u>Nature</u> 317:613- 616.	}
Zinke, P.J., A.G. Stangenberger, W.M. Post, W.R. Emanuel, and J.S. Olson. 1984. Worldwide organic soil carbon and nitrogen data. ORNL/TM-8857. Oak Ridge National Laboratory, Oak Ridge, Tennessee, 37831.	

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**CDIC NUMERIC DATA PACKAGE
ABSTRACT**

1. NUMERIC DATA PACKAGE NAME

NDP-018: Worldwide Organic Soil Carbon and Nitrogen Data

2. CONTRIBUTORS

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3. CITATION OF THE PACKAGE

The Carbon Dioxide Information Center (CDIC) recommends the following citation for those citing or referencing this package:

Zinke, P.J., A.G. Stangenberger, W.M. Post, W.R. Emanuel, and J.S. Olson. 1986. Worldwide organic soil carbon and nitrogen data. NDP-018, Carbon Dioxide Information Center, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

4. BACKGROUND INFORMATION

A part of the carbon cycle is storage of carbon in the soil. Photosynthetic fixation by plants of atmospheric carbon dioxide is the source of soil organic carbon matter. Photosynthesis also affects the rates of carbon storage in soil and the loss of carbon through oxidation. Storage and loss rates can vary depending on the temperature, soil aeration, and nutrient availability, which in turn are related to climate, soil parent material, topography, and the effects of biota and human manipulation (Jenny 1941, 1980).

An equilibrium between the storage and loss of carbon from the soil organic matter pool is reached when vegetation input and other soil-forming factors remain constant over a long period of time. Over long periods, carbon storage can vary due to climatic, geologic, and soil changes; over short time periods, vegetation disturbance or succession, and land use conversions can affect storage. These changes can cause the local carbon

storage to fluctuate or to be maintained at other than equilibrium levels. Thus, the amount of carbon stored in the soil as measured in soil samples may or may not be in equilibrium depending on whether or not the site has been recently or severely disturbed.

The objective of the research presented in this package was to identify data that could be used to estimate the size of the soil organic carbon pool under relatively undisturbed soil conditions. A subset of the data can be used to estimate amounts of soil carbon storage at equilibrium with natural soil-forming factors. The magnitude of soil properties so defined is a baseline for evaluation of the effects of disturbance and the resulting nonequilibrium values for carbon storage. Variation in these values is due to differences in local and geographic soil-forming factors. Therefore, information is included on location, soil nitrogen content, climate, and vegetation along with carbon density and variation.

5. SOURCE AND SCOPE OF THE DATA

This data base was begun about 40 years ago with the collection and analyses by Zinke of soil samples from California. Additional data came from soil surveys of California (Zinke et al. 1979), Italy and Greece (Zinke 1965), Iran (Zinke 1976), Thailand (Zinke et al. 1978), Vietnam (Zinke 1974), various tropical Amazonian areas, USA forest soils by Zinke, and from the soil survey literature.

The main samples for laboratory analyses were collected at uniform soil depth increments and included bulk density determinations, but samples reported in the literature did not always have this uniformity. For the latter group of samples, only profiles that were sampled to a meter depth or to actual depth were used; if bulk densities were not reported, then estimates were made from regressions based on organic carbon content of the soil samples associated with the profile.

Methods used for analytical carbon determinations were dry combustion, "wet combustion", or loss on ignition with adjustments made to the values obtained with the last two methods. Nitrogen was determined by the Kjeldahl method on the soil fine earth fraction and reported as total organic nitrogen.

For further details on the data and the data handling methods see p. 3-7 of Zinke et al. (1984), which is included in this package.

6. APPLICATIONS OF THE DATA

The data can be used to estimate the size of the soil organic carbon and nitrogen pools at equilibrium with natural soil-forming factors. Most of the data are from profiles associated with natural vegetation so they constitute a baseline for evaluation of the effects that disturbance or modification to natural vegetation has on soil carbon equilibrium at either a

global or regional scale. It can also be used for understanding the range and variability of soil carbon and nitrogen pools for specific ecosystems or climatic regimes.

7. RESTRICTIONS AND LIMITATIONS

The data on the sizes of the global carbon and nitrogen pools, although necessary for understanding the role of these pools in their respective cycles, are insufficient for understanding the rates of interaction of these pools with other components of their cycles (e.g., the atmosphere and terrestrial vegetation). Also needed are estimates of the turnover rates or mean residence times of the elements under different conditions, particularly modifications of vegetation by man.

8. KEYWORDS

SOIL CARBON; SOIL NITROGEN

9. CONTENTS OF THE PACKAGE

The package contains worldwide soil carbon and nitrogen data for more than 3500 soil profiles along with reprints of pertinent literature (a) describing and discussing the data. A complete listing of the data is provided on pages 31-117 of Table A in Zinke et al. (1984), which is included in the package.

a. Included in the package:

Post, W.M., W.R. Emanuel, P.J. Zinke, and A.G. Stangenberger. 1982. Soil carbon pools and world life zones. Nature 298: 156-159.

Post, W.M., J. Pastor, P.J. Zinke, and A.G. Stangenberger. 1985. Global patterns of soil nitrogen storage. Nature 317: 613-616.

Zinke, P.J., A.G. Stangenberger, W.M. Post, W.R. Emanuel, and J.S. Olson. 1984. Worldwide organic soil carbon and nitrogen data. ORNL/TM-8857. Oak Ridge National Laboratory, Oak Ridge, Tennessee, 37831.

b. Background Information:

Jenny, H. 1941. Factors of soil formation. McGraw-Hill, New York.

Jenny, H. 1980. The soil resource, origin and behavior. Springer-Verlag, New York.

- Zinke, P.J. 1965. Mediterranean analogs of California vegetation types. U.S. Army National Lab. Project IK025001A129.
- Zinke, P.J. 1974. Effects of herbicides on soils of South Vietnam. Part B: The effects of herbicides in South Vietnam. National Academy of Sciences, Washington, D.C.
- Zinke, P.J. 1976. The banyan trees of Kish Island, Iran. Kish Island Development Corp., Teheran, Iran.
- Zinke, P.J., S. Sabhasri, and P. Kundstadter. 1978. Soil fertility aspects of the Lua' forest follow system of shifting cultivation. pp. 134-159. IN: Farmers in the Forest. East West Center, Univ. Hawaii, Honolulu.
- Zinke, P.J., A.G. Stangenberger, and W. Colwell. 1979. The fertility of the forest. Calif. Agric. 33: 10-11.

10. HOW TO OBTAIN THE PACKAGE

The document contains a printed listing of the data for the use of requesters who may not need the automated data. The data are also available on magnetic tapes upon request from the CDIC. The magnetic tape will contain a descriptive file (pg. 6), a FORTRAN retrieval code to read and print the data (pg. 8), and one file containing the organic soil carbon and nitrogen data. Requests for magnetic tapes should include any specific instructions for transmitting the data required by the user to access the data. Requests should be addressed to the:

Carbon Dioxide Information Center
Oak Ridge National Laboratory
Post Office Box X
Oak Ridge, Tennessee 37831-6050
Telephone: (615) 574-0390
FTS 624-0390

11. DATE OF ABSTRACT

September 1986.

Each numeric data package (NDP) assembled by CDIC goes through a process of assuring the quality of the data. This process includes review(s) by the contributors of the data to ensure that, in compiling the data, CDIC does not misrepresent or inaccurately describe the data. NDPs are not distributed without the written consent of the contributors.

MAGNETIC TAPE CONTENTS

Description	Mode	Logical Records	DCB Parameters		
1. General Descriptive Information File	EBCDIC	74	FB	4240	80
2. FORTRAN Data Retrieval Code	EBCDIC	16	FB	4240	80
3. Worldwide Organic Soil Carbon and Nitrogen Data	EBCDIC	3583	FB	800	80
Total Records		3673			

MAGNETIC TAPE DESCRIPTIVE FILE

DATASET TITLE: Worldwide Organic Soil Carbon and Nitrogen Data

CONTRIBUTOR(S): P.J. Zinke
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Oak Ridge National Laboratory
Oak Ridge, Tennessee 37831

SCOPE OF THE DATA: A compilation of worldwide soil carbon and nitrogen data for more than 3500 soil profiles are provided. The data were obtained from soil surveys by Zinke (1965, 1974, 1976, 1978, 1979, and 1984) and soil survey literature. The main samples for laboratory analyses were collected at uniform soil increments and included bulk density determinations. Many samples reported in the survey literature did not have uniform soil increments or bulk density determinations. Only soil profiles that had been sampled either to a meter in depth or to actual depth were included in this data base from soil survey literature. In literature where bulk densities were absent, densities were estimated by regressions based on organic carbon content of the soil samples associated with the profile using 1800 soil profiles for which bulk densities were known.

DATA FORMAT: One data file contains the soil carbon and nitrogen data. This file contains the soil profile number and location, carbon (kg/m^2) and nitrogen (g/m^2) content, sample site latitude, longitude, and elevation (meters), and sample profile classification by Holdridge life zone, Olson ecosystem type (Olson et al. 1983), and parent material.

REFERENCES

- Olson, J.S., J.A. Watts, and L.J. Allison. 1983. Carbon in live vegetation of major world ecosystems. ORNL-5862, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Post, W.M., W.R. Emanuel, P.J. Zinke, and A.G. Stangenberger. 1982. Soil carbon pools and world life zones. Nature 298:156-159.

- Post, W.M., J. Pastor, P.J. Zinke, and A.G. Stangenberger. 1985. Global patterns of soil nitrogen storage. Nature 317:613-616.
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FORTRAN IV DATA RETRIEVAL PROGRAM LISTING

```
C  FORTRAN RETRIEVAL CODE TO READ AND PRINT SOIL CARBON &  
C  NITROGEN DATA FILE (FILE 3 ON MAGNETIC TAPE)  
C  
C      INPUT REFERENCE NUMBER=5  
C  
C      OUTPUT REFERENCE NUMBER=6 (LINE PRINTER)  
C      DIMENSION DATA(80)  
1      CONTINUE  
      READ(5,100,END=99) (DATA(I),I=1,80)  
100     FORMAT(80A1)  
      WRITE(6,200,END=99) (DATA(I),I=1,80)  
200     FORMAT(80A1)  
      GO TO 1  
99      CONTINUE  
      STOP  
      END
```

TABLE 1. Sample listing of the worldwide organic soil carbon and nitrogen data.

PROFILE NUMBER	CARBON		NITROGEN		LATITUDE	LONGITUDE	ELEV. (M)	SOURCE	CATEGORY		
			(Kg/M ²)	(g/M ²)					A	B	C
0001001	27	CO	6.2	234.	39.9N	105.0W		5	D	22	
0001002	29	CO	5.9	257.	39.9N	105.9W		5	D	22	
0001003	31	CO	3.2	117.	39.9N	105.9W		5	D	22	
0001004	33	CO	4.8	204.	39.9N	105.9W		5	D	22	
0001005	35	CO	4.2	198.	39.9N	105.9W		5	D	22	
0001006	37	CO	3.2	119.	39.9N	105.9W		5	D	22	
0001007	39	CO	4.2	190.	39.9N	105.9W		5	D	22	
0001008	41	CO	8.3	312.	39.9N	105.9W		5	D	22	
0001009	43	CO	7.8	262.	39.9N	105.9W		5	D	22	
0001010	55	CO 25 2	3.6	111.	39.9N	105.9W		5	D	22	
0001011	58	CO 8 6	6.9	366.	38.9N	106.0W	2896	5	D	22	
0001012	58	CO 8 8	17.1	874.	38.9N	106.0W	2896	5	D	22	
0001013	85	CO	7.2	268.	39.9N	105.9W		5	D	22	
0001014	87	CO	16.7	725.	39.9N	105.9W		5	D	22	
0001015	89	CO	6.0	243.	39.9N	105.9W		5	D	22	
0001016	91	CO	22.0	1303.	39.9N	105.9W		5	D	22	
0001017	57	CO 8 1	2.3	110.	38.8N	106.0W	2966	5	D	22	
0001018	57	CO 8 2	3.3	134.	38.8N	106.0W	3004	5	D	22	
0001019	57	CO 8 3	2.5	123.	38.8N	106.0W	3034	5	D	22	
0001020	63	CO 18 1	3.2	160.	39.2N	104.9W	2195	5	D	22	
0001021	63	CO 18 2	4.6	174.	39.2N	104.8W	2210	5	D	22	
0001022	55	CO 25 3	3.6	136.	39.9N	105.9W		5	D	22	
0001023	55	CO 25 4	3.5	177.	39.9N	105.9W		5	D	22	
0001024	55	CO 25 7	2.9	157.	39.9N	105.9W		5	D	22	
0001025	55	CO 25 8	4.3	148.	39.9N	105.9W		5	D	22	
0001026	55	CO 25 5	3.8	222.	40.0N	105.9W		5	D	22	
0001027	55	CO 25 6	3.9	265.	40.0N	105.9W		5	D	22	
0001028	59	CO 26 3	2.1	88.	38.9N	106.6W	3018	5	D	22	
0001029	59	CO 26 6	0.9	42.	38.9N	106.6W	2987	5	D	22	
0001030	58	CO 8 1	9.4	691.	38.9N	106.0W	2810	5	B	40	
0002001	59	CO 44 1	6.1	651.	40.5N	103.9W	1433	5	B	40	
0002002	59	CO 44 2	4.3	446.	40.5N	103.9W	1448	5	B	40	
0002003	55	CO 5 3	6.1	517.	37.3N	102.8W		5	B	40	
0002004	63	CO 18 7	14.2	1080.	39.1N	104.7W	2195	5	B	40	
0002005	63	CO 18 8	10.7	820.	39.2N	104.8W	2195	5	B	40	
0002006	58	CO 18 3	4.1	392.	38.8N	106.0W	2834	5	B	40	
0002007	58	CO 8 12	3.6	298.	38.8N	106.0W	2804	5	B	40	
0002008	59	CO 44 3	3.4	316.	40.3N	103.9W	1356	5	B	40	
0002009	59	CO 44 4	3.7	361.	40.3N	104.0W	1362	5	B	40	
0002010	61	CO 3 9	6.4	574.	39.7N	104.2W	1600	5	B	40	
0002011	58	CO 8 7	9.3	819.	38.7N	106.0W	2979	5	B	40	

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ORNL/TM-8857

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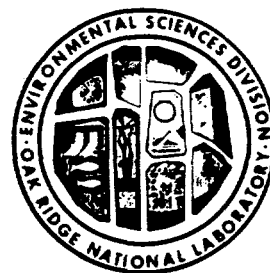
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**Worldwide Organic Soil
Carbon and Nitrogen Data**

P. J. Zinke
A. G. Stangenberger
W. M. Post
W. R. Emanuel
J. S. Olson

ENVIRONMENTAL SCIENCES DIVISION
Publication No. 2212

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WORLDWIDE ORGANIC SOIL CARBON AND NITROGEN DATA

**P. J. Zinke,¹ A. G. Stangenberger,¹ W. M. Post,
W. R. Emanuel, and J. S. Olson**

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Berkeley, California

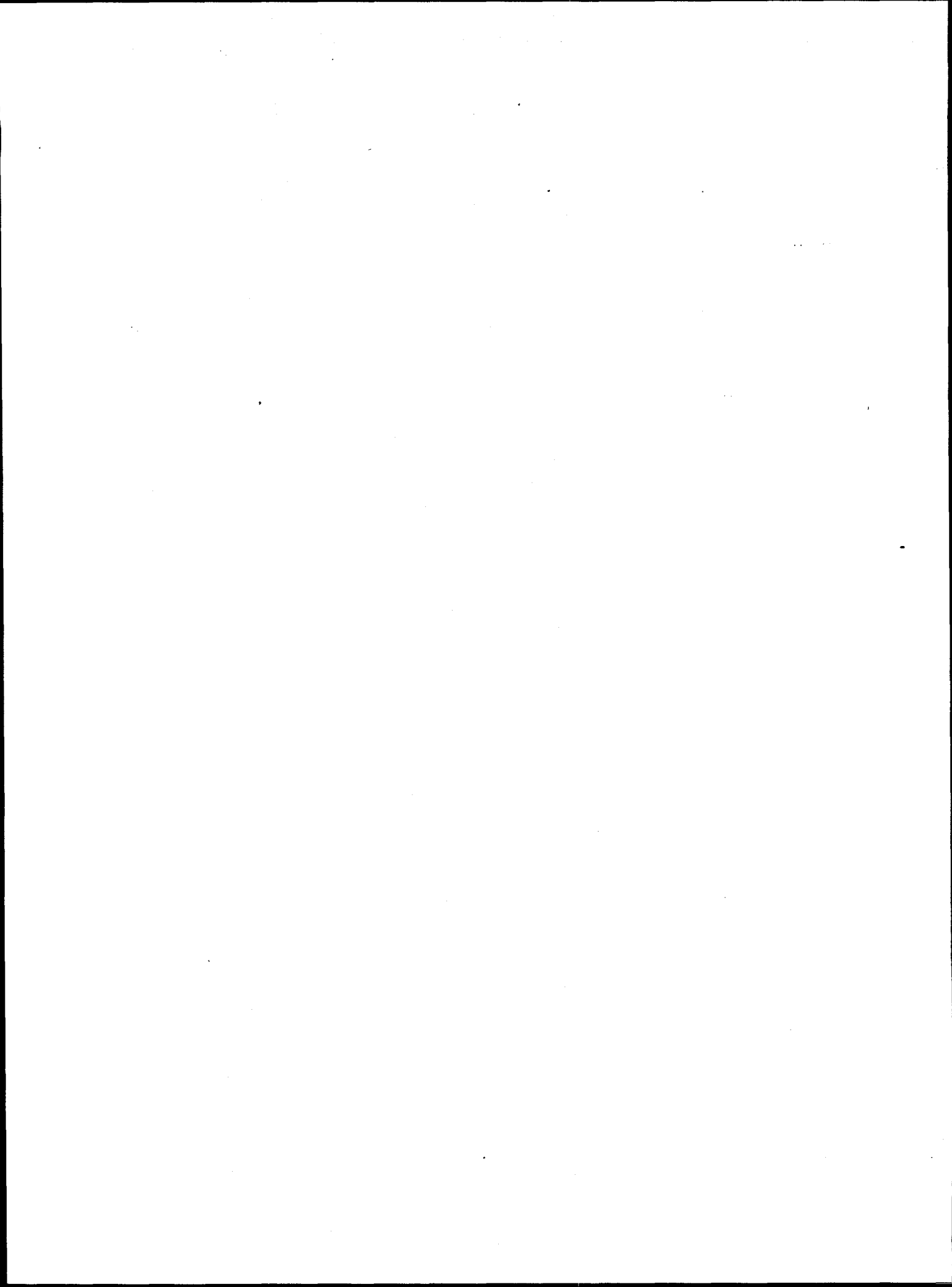
Date Published - May 1984

ENVIRONMENTAL SCIENCES DIVISION
Publication No. 2212

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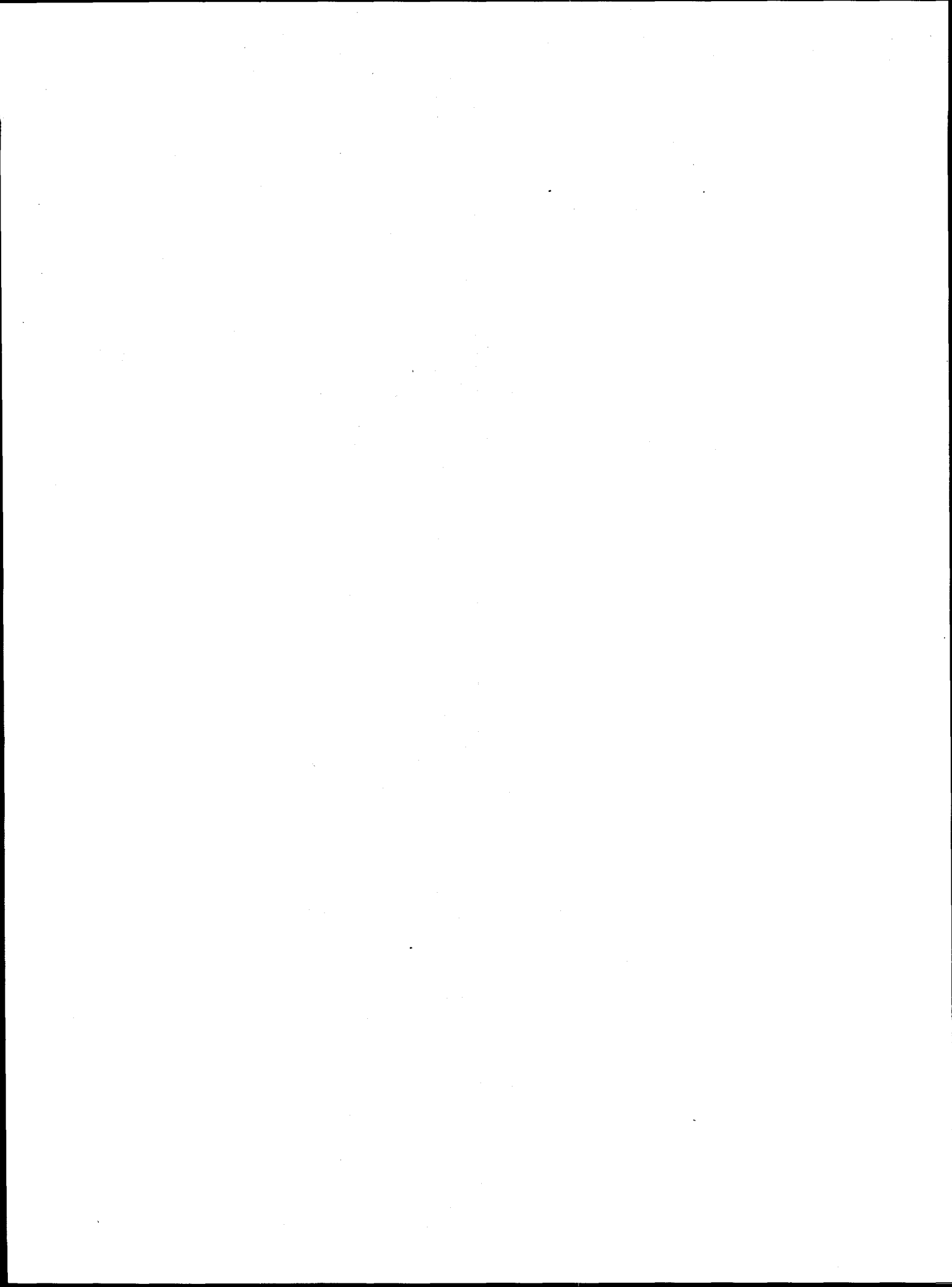
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ACKNOWLEDGEMENTS

The gathering of this data base took place with an initial inspiration from Professor Hans Jenny, University of California, Berkeley. The idea of collating the data on a worldwide basis grew out of a recommendation at the 1976 Dahlem Conference in Berlin dealing with global chemical cycles and their alteration by man. Various funding sources supported the costly process of coding data as well as computer software development for calculations and statistical analysis of data. Major support was received from the California Agricultural Experiment Station (Projects 1762 and 2937-MS), California Cooperative Soil Vegetation Survey, U.S. Department of Agriculture (U.S. Forest Service Pacific Southwest Forest and Range Experiment Station Cooperative Agreements 16 U.S.C. 581, 76 Stat. 579), U.S. Department of Energy (Contract EY-76-5-03-34 PA-272), and the U.S. National Science Foundation through the International Biological Program's Coniferous Forest Biome project. Current support is by the National Science Foundation's Ecosystem Studies Program under Interagency Agreement No. DEB 81-15316 with the U.S. Department of Energy under contract W-7405-eng-26 with Union Carbide Corporation.

This report is dedicated to Dr. Hans Jenny in celebration of his 85th birthday. His ideas continue to challenge us.



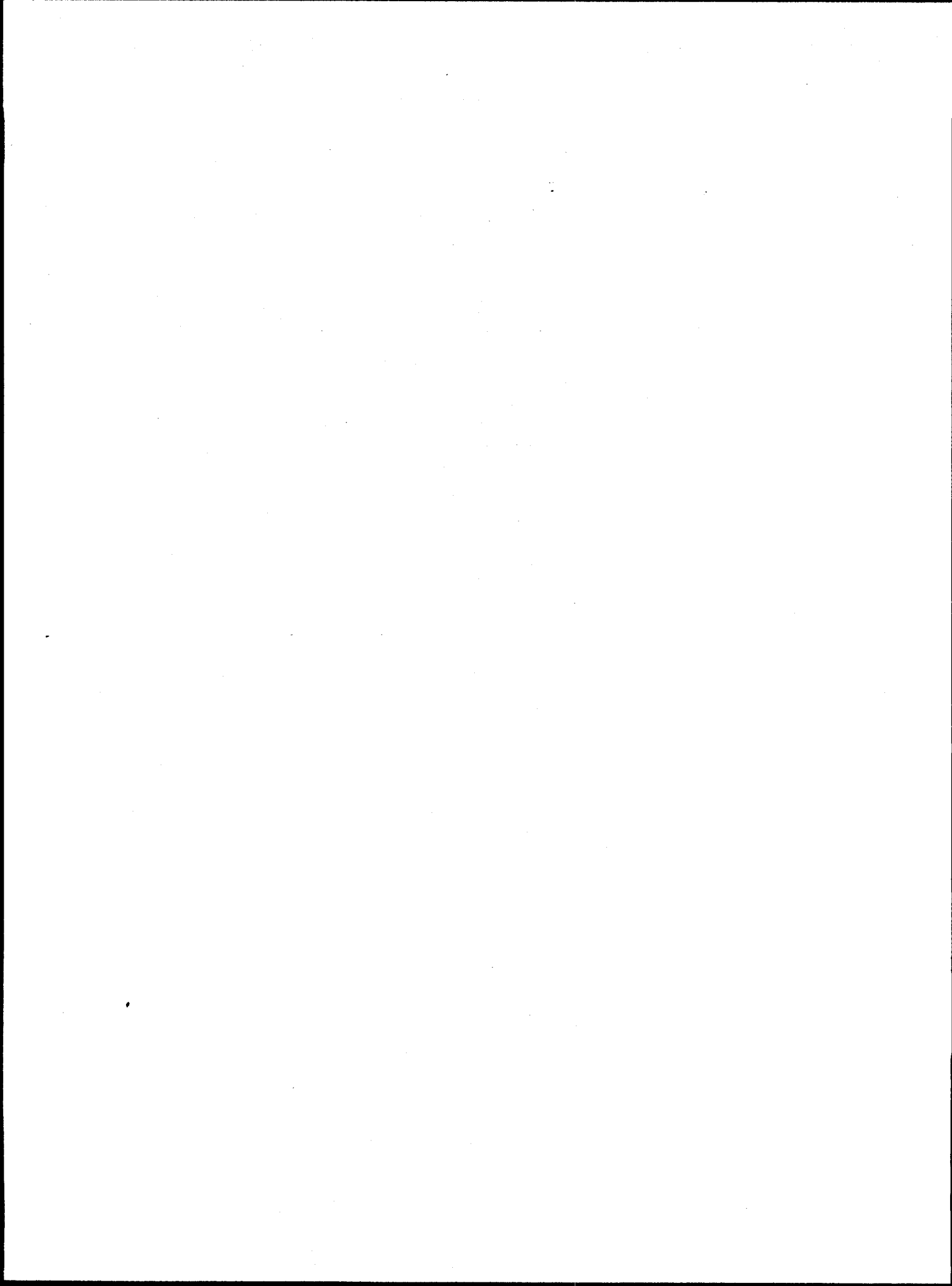
ABSTRACT

Zinke, P. J., A. G. Stangenberger, W. M. Post, W. R. Emanuel, and J. S. Olson. 1984. Worldwide organic soil carbon and nitrogen data. ORNL/TM-8857. Oak Ridge National Laboratory, Oak Ridge, Tennessee. 150 pp.

A compilation of soil carbon and nitrogen storage data for more than 3500 soil profiles from under natural vegetation or relatively undisturbed sites is presented in this report. Many of these data came from initial studies at our laboratories at the University of California, augmented later by many more from the soil survey literature. Details of sample collection, chemical analyses, data computation, summary statistics, and data sources are documented in this report. A summary table of the carbon and nitrogen storage in a pedon of surface cubic meter for each soil profile, as well as location, elevation, climate, parent material, and vegetation information, are presented in the Appendix. The data were used to determine average carbon and nitrogen storage on land surfaces of the world. Calculations were also made of storage related to climatic classifications, ecosystem classifications, and latitudinal increments from the equator to 75°.

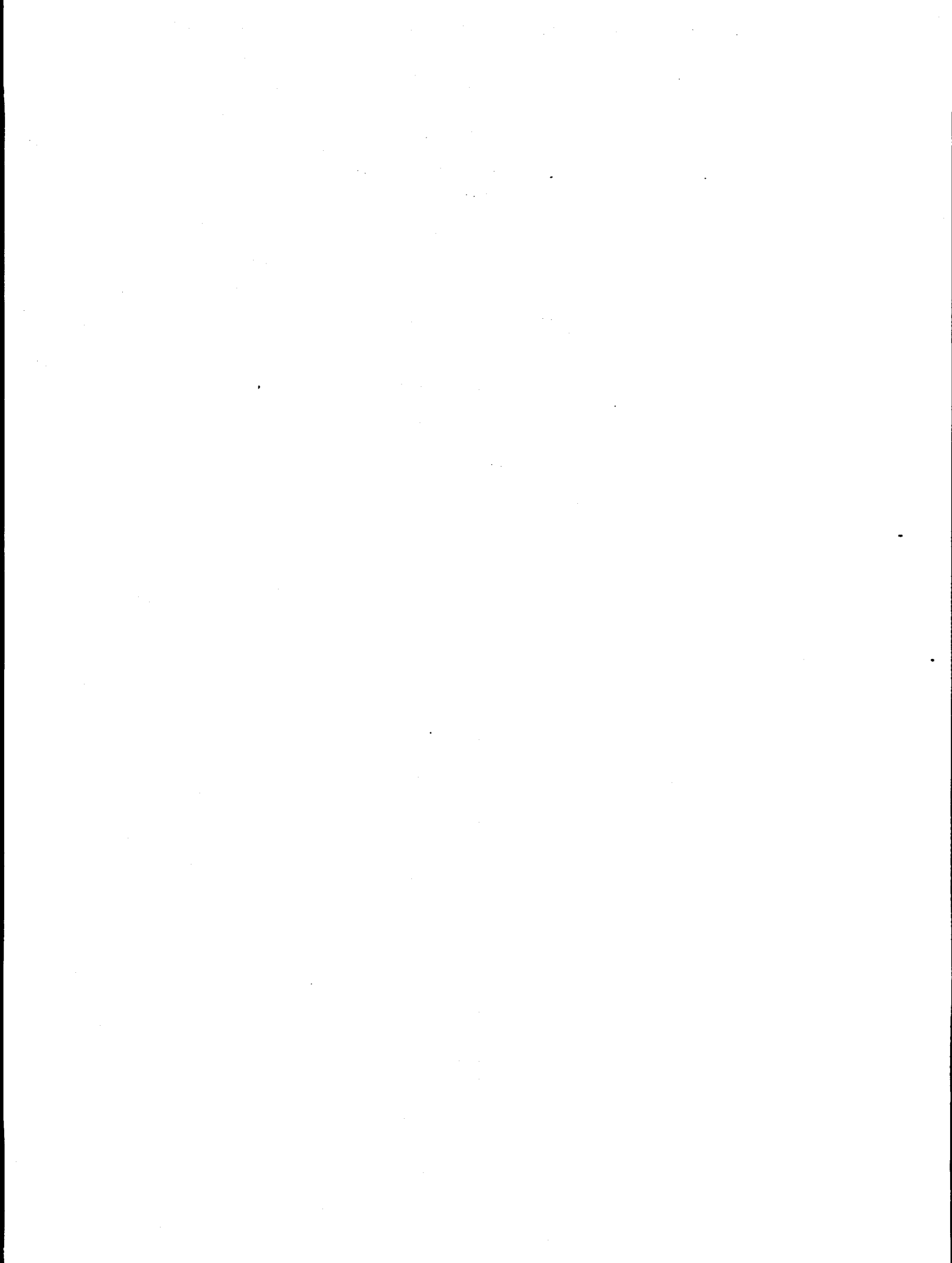
Carbon ($\text{kg} \cdot \text{m}^{-3}$) varies from 2 in hot dry climates, through 10 in many cold dry or seasonally moist (warm or hot) climates, to more than 30 in wet alpine or subpolar climates. Nitrogen storage, an order of magnitude smaller than carbon storage in soils, shows broad parallels but exceeds $1600 \text{ g} \cdot \text{m}^{-3}$ for subtropical/tropical premontane or lower montane soils, as well as alpine or subpolar wet soils. Such limiting conditions, defined by a balance of income and loss rates for mature soil profiles, also explain much of the variation among major ecosystem complexes whose soils are partly disturbed, incompletely recovered, or imperfectly known regarding their maturity and stability.

Classifying profiles into Holdridge life zones and using appropriate life zone areas, we estimate $1309 \times 10^{15} \text{ g}$ carbon and $92 \times 10^{15} \text{ g}$ nitrogen in the world's soils. Alternatively, using average organic carbon and nitrogen densities from one degree latitude bands multiplied by the earth's surface area in the respective bands, we arrive at $1728 \times 10^{15} \text{ g}$ of carbon and $117 \times 10^{15} \text{ g}$ of nitrogen. Inadequacies that lead to the disparate estimates are discussed.



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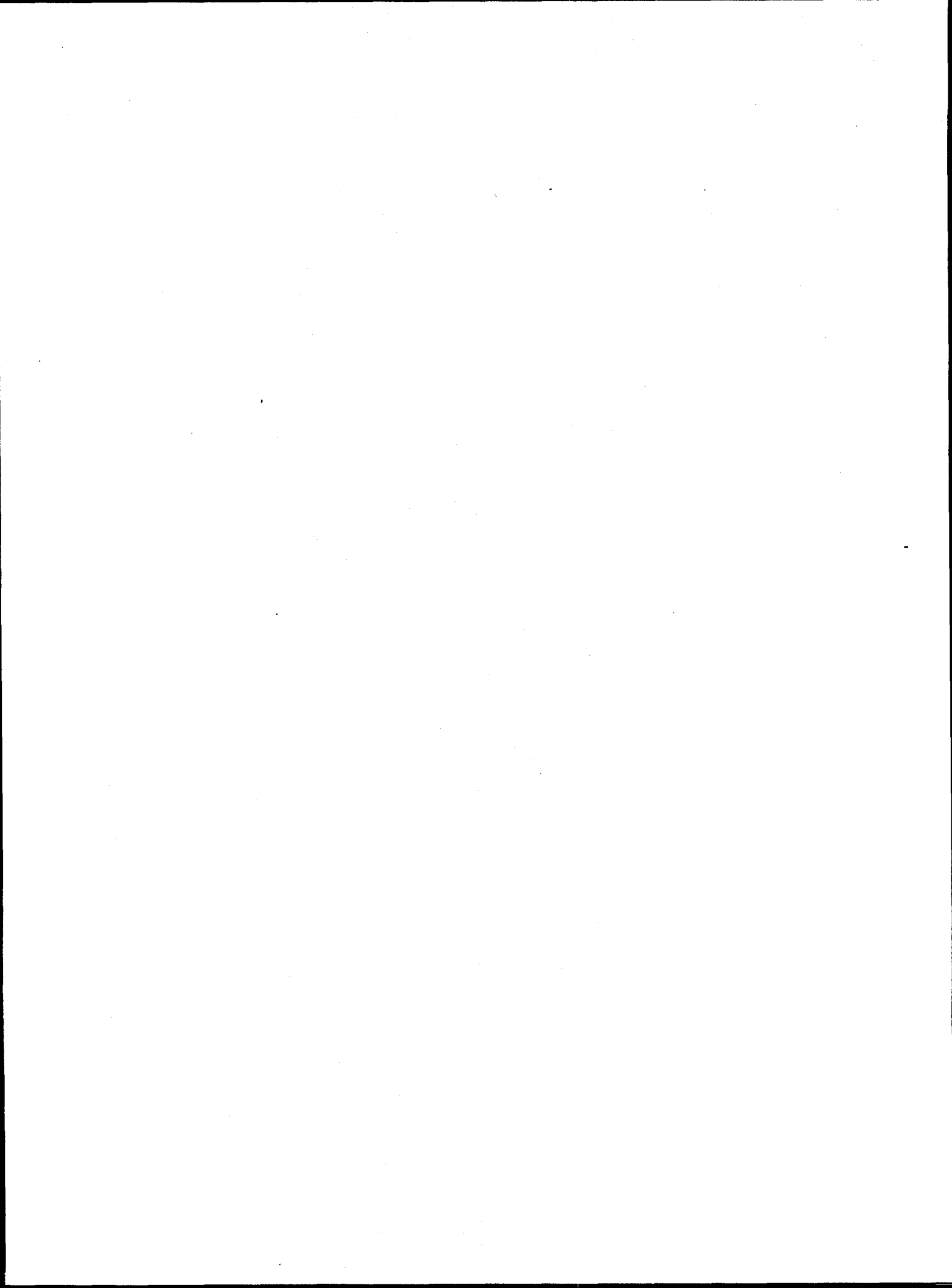
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1. INTRODUCTION

This report is a documentation of a data base describing carbon storage in mineral soils on a global basis. The storage of carbon in soil is part of the carbon cycle. Carbon dioxide from the atmosphere, fixed photosynthetically by plants, is the source of the carbon-containing organic matter and is a main determinant of biological activity in the soil. This activity in turn determines the rate of addition of carbon to storage and its loss through oxidation. The rates of these processes vary widely, depending on other parameters such as temperature, soil aeration, and availability of nutrients. These are related to environmental factors such as climate, soil parent material, topography, and effects of biota and human manipulation (Jenny 1941, 1980).

When vegetation input and other soil-forming factors remain constant over a long period of time, the amount of organic soil carbon approaches an equilibrium. This represents a balance between the inputs and outflows of carbon from the soil organic matter pool. Actual storage of carbon may vary over long periods of time due to climatic, geologic, and soil change; and in short time periods due to vegetation disturbance or succession, or conversion to different land uses. Any such change may cause the local soil carbon storage to fluctuate or to be maintained on average at other than equilibrium levels. The amount of carbon stored in the soil as measured by soil samples gathered in the field may be near an expected equilibrium value, or it may not be in equilibrium where site conditions have been disturbed recently or severely.

Our objectives include identifying data (e.g., for life zone analysis) that allow the estimation of the size of the soil organic carbon pool under relatively undisturbed soil conditions. A subset of the present data presumably helps us approximate amounts of soil carbon storage at equilibrium with natural soil-forming factors. The magnitude of soil properties so defined becomes a baseline against which the effects of disturbance and the resulting nonequilibrium magnitude of carbon storage can be evaluated. The variation in soil carbon storage reported here is due to differences in soil-forming factors on local and geographic scales. We therefore include information concerning location, nitrogen content, climate, and vegetation as well as carbon density and variation with the data base.



2. DATA SOURCES

Compilation of this soil carbon data base began forty years ago with soil sampling and analyses associated with projects of the senior author at the California Agricultural Experiment Station, University of California. Subsequently the initial data were augmented from other sources of soil survey laboratory data including those from the California Cooperative Soil-Vegetation Survey (California Soil-Vegetation Survey n.d., Zinke et al. 1979). Soil samples were also collected in Italy and Greece (Zinke 1965), Iran (Zinke 1976) and in various tropical Amazonian areas in collaboration with Projecto Radam of the Brazilian government. Additional studies were conducted in Thailand (Zinke et al. 1978) and Vietnam (Zinke 1974). A major opportunity for augmenting the data base was offered by the support of the International Biological Program's Western Coniferous Forest Biome, in which a biome-wide gathering of forest soil data was conducted by the senior author. This led to expanding the data base to other forested areas in the United States. Data from the soil survey literature were used when the reports included data for the complete soil profile and necessary auxiliary data which allowed the computation of total elemental storage to a meter depth, or to the actual soil depth if less.

Our primary samples for laboratory analyses were all gathered at uniform soil depth increments and included bulk density determinations. The literature sources did not always have this uniformity. Major problems with the literature data were: (1) soil sampled to insufficient depth, often only surface samples 20 cm or less in depth, and (2) bulk density not always reported. The problem of insufficient depth was handled by selecting only profiles that had been sampled either to a meter depth or to actual soil depth. When bulk density measurements were absent, it was estimated by regressions based on organic carbon content of the soil samples associated with the profile. These were made using 1800 soil profiles for which bulk densities were known. These regressions were made individually for categories of soils based on vegetation type, i.e., forest vs grassland, which relate to the manner in which carbon is added to soil. The regression equation was

$$B_D = b_0 + b_1 D + b_2 \log_{10} C_f, \quad (2.1)$$

where B_D is bulk density, D is depth to center of horizon or layer, and C_f is the fraction by soil weight of organic carbon. The results are summarized in Table 2.1.

Analytical determinations of carbon and nitrogen content may be made by a variety of methods. The most quantitative method for soil carbon is by dry combustion, i.e., weighing the carbon dioxide produced by combustion of a known weight of oven-dry soil in a pure stream of oxygen in a tube furnace. Many of the published data are based on organic matter determinations made by "wet combustion," the Walkley-Black method (Allison 1965). Results are often given for percent soil organic matter, which for this data set was considered to be 58% carbon unless otherwise stated in the reference. A few references use loss on ignition as a measure of total organic matter. These values were also adjusted with the 58% factor to total

Table 2.1. Regressions of soil bulk density as a function of depth and carbon content for major groups of world vegetation types

Depth	Number of samples	b_0 (Constant)	Coefficients b_1 (Depth)	b_2 [Log(carbon)]	r^2	S. E. of est.
Cool conifer forest						
Warm conifer/broad-leaved mixed woods						
Warm conifer forest						
≤20 cm	1149	1.343	-0.00599	-0.488	0.299	0.249
>20 cm	2213	1.254	-0.000138	-0.308	0.207	0.279
All depth classes	3362	1.242	-0.000201	-0.356	0.336	0.271
Cool deciduous forest						
Warm broad-leaved forest						
≤20 cm	24	1.542	0.00324	-0.507	0.253	0.263
>20 cm	45	1.355	0.00167	-0.0854	0.326	0.148
All depth classes	69	1.413	0.000799	-0.156	0.223	0.206
Cool farms or grass/scrub						
Warm farm or grass/scrub						
Warm farm, grass, or scrub with woods						
≤20 cm	91	1.295	0.00574	-0.271	0.215	0.201
>20 cm	133	1.463	-0.00105	-0.266	0.182	0.216
All depth classes	224	1.386	-0.000543	-0.305	0.332	0.213
Cool grazing land (mostly grassland)						
Miscellaneous grazing lands (grass/scrub, etc.)						
≤20 cm	294	1.499	-0.00266	-0.633	0.459	0.254
>20 cm	518	1.502	-0.00184	-0.400	0.303	0.242
All depth classes	812	1.478	-0.00206	-0.488	0.402	0.250
Mediterranean scrub/woods/savanna						
≤20 cm	371	1.355	0.0106	-0.325	0.417	0.209
>20 cm	417	1.501	-0.000698	-0.273	0.251	0.179
All depth classes	788	1.446	-0.000645	-0.344	0.444	0.199
Marsh and/or swamp woods and littoral						
≤20 cm	42	1.376	0.00709	-0.781	0.590	0.262
>20 cm	19	1.202	-0.00210	-0.205	0.237	0.267
All depth classes	61	1.303	-0.000739	-0.595	0.549	0.283
Tropical/subtropical forest complexes						
Seasonal tropical woods/savanna/scrub						
≤20 cm	444	1.151	0.00614	-0.209	0.241	0.159
>20 cm	815	1.318	0.00121	-0.0968	0.291	0.131
All depth classes	1259	1.231	0.00147	-0.203	0.524	0.150

organic carbon. Data for calcareous soils were used only when total carbonate carbon was deducted from the soil carbon determination as we have done in our laboratory. All data were first reported as percent organic carbon on the fine earth fraction (<2-mm fraction) and then adjusted for granules, gravel, or coarser stones as noted below.

Nitrogen data were used only when determined by the Kjeldahl method on the soil fine earth fraction. These are reported as total organic nitrogen.

3. DATA HANDLING METHODS

The original data from our University of California Berkeley Laboratory (Stangenberger 1968, 1979; Zinke n.d., 1965, 1974, 1976; Zinke et al. 1978; Dickson 1952) came from analyses of field samples collected at increments of 0, 5, 10, 20, 40, 60, 80, and 100 cm, or 0, 3, 6, 12, 24, and 48 in. If an entire horizon was located between these increments, additional samples were collected. A volume of soil for analysis was obtained uniformly through each depth increment. Bulk density samples were obtained from the center of the depth increment using a tube of known volume. The oven-dry weight of the bulk-density sample was divided by the volume to determine bulk density. Analyses of soil were made on the fine earth material passing a 2-mm sieve. The remaining coarse mineral material, weighed for %>2-mm fraction, was assumed to contain no carbon or nitrogen. Coarse fraction organic matter fragments identifiable as roots and charcoal were not included in our calculations. (They constitute an additional ecosystem component, identified either with soil or with vegetation.)

The data from published sources were used when similar standard methods had been followed, and data were presented for %>2-mm fraction and for carbon and nitrogen amounts. Where bulk density was not reported, it was estimated by using Eq. 2.1. The appropriate regression coefficients, b_0 , b_1 , b_2 , for the vegetation type associated with the profile were selected for each horizon or layer from Table 2.1.

Because of the stony nature of most forest soils, bulk density was adjusted to reflect the volume of soil occupied by rocks. The weight of fine earth per unit volume of soil (W_{FE}) was calculated as:

$$W_{FE} = B_D \left(\frac{V_{FE}}{V_{FE} + V_R} \right), \quad (3.1)$$

where V_{FE} and V_R are the volumes of fine earth and rock, respectively, per unit weight of soil. These volumes were calculated as:

$$V_{FE} = \frac{(1 - \delta_{2mm})}{B_D} \quad (3.2)$$

and

$$V_R = \frac{\delta_{2mm}}{2.65}, \quad (3.3)$$

where δ_{2mm} is the weight of >2-mm material per unit weight of total soil. All rocks were assumed to have a specific gravity of 2.65.

The amount of carbon or nitrogen (C) stored in a soil layer of unit area (1 m^2) was calculated as:

$$C = C_F W_{FE} V, \quad (3.4)$$

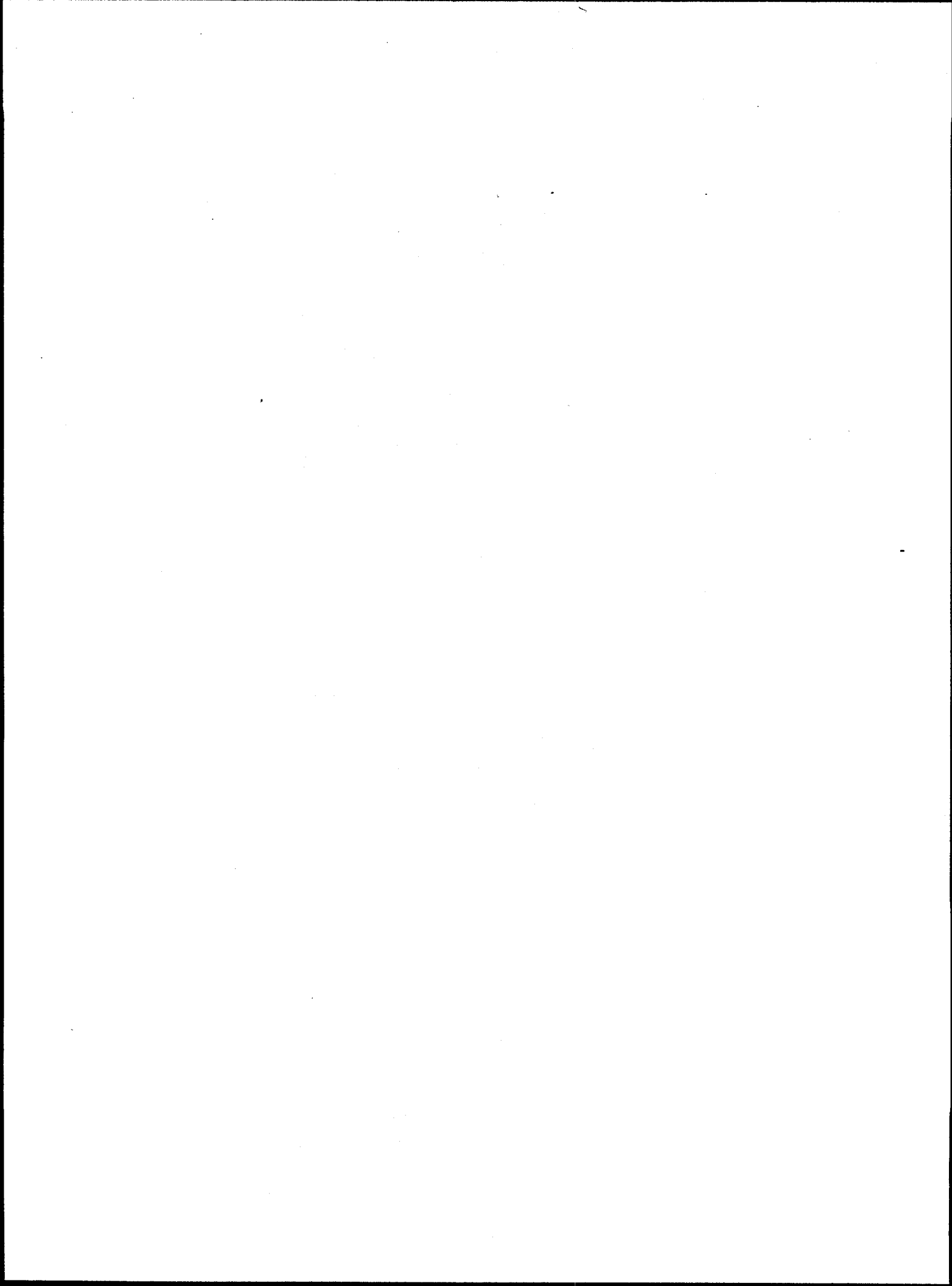
where C_F is the weight of elemental carbon or nitrogen per unit weight of fine earth, and V is the volume of soil depth increment per square meter. These values were used to calculate cumulative carbon storage by depth increments to total soil depth. Where many coarse stones deflected sampling locations to pockets of less coarse debris or where stones too large to be picked up in normal sampling may not be included in the W_{FE} corrections, values of C from (Eq. 3.4) may be biased on the high side.

Uniform depth increments were adopted to standardize data. This was accomplished by assuming that each depth increment or horizon was homogeneous in carbon or nitrogen density. The content in a depth increment was obtained by summing the content of the summary standard horizon in proportion to its representation in the original sampled horizons. Table 3.1 presents an example of the calculations. Conversion of the soil profile data to standard depth representation allows comparison of carbon and nitrogen storage to uniform depths for soil data from otherwise diverse depth-sampling formats. Finally, for the objectives of this study, this method allowed us to calculate soil carbon storage on a square meter basis to a standard depth of one meter, i.e., for a cubic meter soil pedon.

Table 3.1. Calculation of soil carbon density

Profile 11-3 PA (by horizon)									
Horizon	1	2	3	4	5	6	7	8	9
Code	A1	A2	B21	B22	B23	B2	C1	C2	C3
Depth:									
Top	0	8	33	41	46	53	76	114	140
Bottom	8	33	41	46	53	76	114	140	165
Bulk density	1.41	1.24	0.97	1.0	1.09	1.3	1.5	1.43	1.54
Percent >2 mm	0	0	0	0	0	0	0	0	0
Carbon:									
Percent	0.65	1.08	8.03	6.42	3.36	0.67	0.14	0.24	0.10
Density ($\text{g} \cdot \text{m}^{-2} \cdot \text{cm}^{-1}$)	91.67	134.01	779.10	641.54	364.58	87.01	21.05	34.26	15.41
Weight in horizon ($\text{g} \cdot \text{m}^{-2}$)	733.38	3550.37	6232.83	3207.68	2552.05	2001.25	800.07	870.68	385.41
Cumulative wt ($\text{kg} \cdot \text{m}^{-2}$)	0.73	4.08	10.32	13.52	16.08	18.08	18.88	14.77	20.15
Profile 11-3 PA (by standard depth)									
Depth:									
Top	0	5	10	20	30	40	50	60	80
Bottom	5	10	20	30	40	50	60	80	100
Carbon:									
Density ($\text{g} \cdot \text{m}^{-2} \cdot \text{cm}^{-1}$)	91.67	108.61	134.01	134.01	585.58	544.51	170.28	73.82	21.05
Weight in horizon ($\text{g} \cdot \text{m}^{-2}$)	485.36	543.05	1340.15	1340.15	5855.77	1702.81	1476.81	1476.39	421.09
Cumulative wt ($\text{kg} \cdot \text{m}^{-2}$)	0.46	1.00	2.34	3.68	9.54	14.98	16.69	18.16	18.58

The entire data base, consisting of the individual data for each soil sample from each depth increment with analyses for the four to five depth increments per profile and analyses for five to ten physical properties and chemical elements, is too detailed to present on paper. At least 70,000 individual analytical results went into the data base, plus data characterizing the site of the soil profile and its location. The data transformations from horizons as actually sampled and analyzed to standard profile summary depths resulted in another equivalent data base; derived calculations to a volume basis contained in this report resulted in a further addition to the data base. For the interested researcher, these supporting data are recorded on microfiche. The microfiche data cards are given a numerical index number. In the Appendix (Table E) we have added the microfiche number containing the data set we obtained from each reference. These microfiche are available from Cooperative Extension, Extension Forester, 163 Mulford Hall, University of California, Berkeley, California 94720 (telephone 415-642-2360), at a cost of \$1 per card. Each card contains up to 270 tables of data along with an index.



4. CARBON STORAGE IN THE CUBIC METER SOIL PEDON

The objective of this study has been to derive the pattern of meter depth calculation of carbon and nitrogen storage from as wide a range of sites, ecosystem complexes, life zones, and natural soil types as possible. The data are presented in the Appendix of this report. Each data record has an identifying profile number, a country or state locational code, latitude and longitude of the site (with elevation where available), carbon and nitrogen content per cubic meter pedon, bibliographical source, Holdridge climatic class, ecosystem type, and parent material category.

Although the data presented in the Appendix are for carbon storage through the cubic meter storage pedon, it is well known, and our detailed data show, that for most soils there is a greater concentration of carbon in the surface horizons, and a lower concentration with depth. Distribution of carbon with depth is well approximated by a log-log relation between cumulative carbon storage to a given depth. Cumulative carbon storage to a soil depth such as 20 cm may be as much as 50% of the total meter depth storage. Examples of these proportions are shown for a selected set of soil profiles from different parts of the world (Fig. 4.1). Areas with woody vegetation tend to have a large proportion of carbon storage in the upper layers of the soil. However, in grassland areas, there is a more uniform distribution

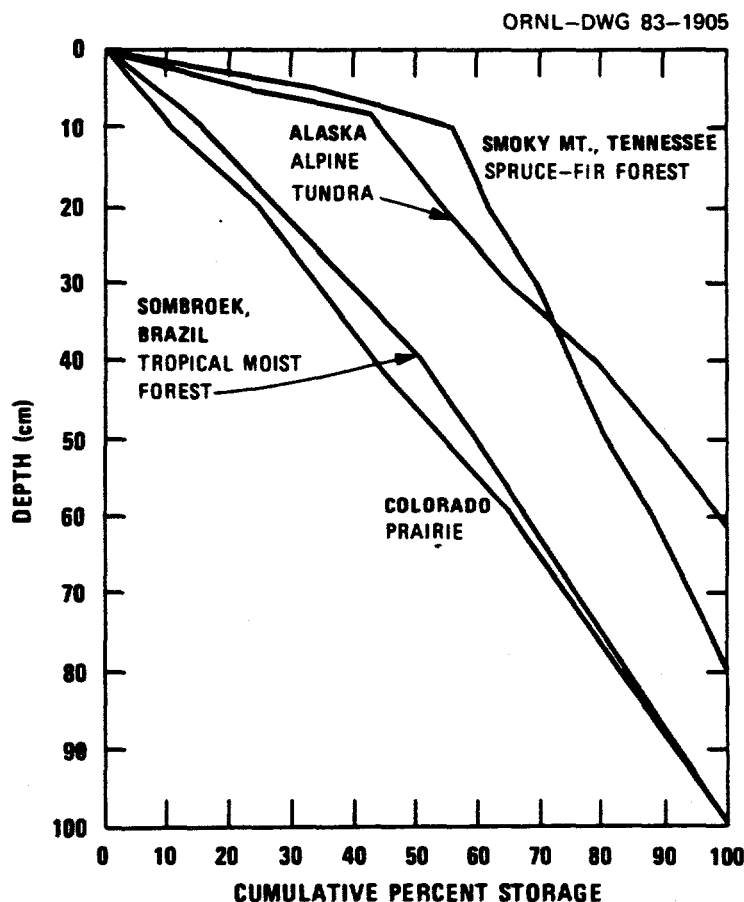


Fig. 4.1. Cumulative carbon storage as a function of depth for four ecosystems.

of carbon through the soil profile. These types of relationships are relevant to determination of the effects of various types of disturbance on soil carbon storage.

The meter depth data offer the opportunity to explore the relationship of soil nutrient storage and major soil-forming variables. In this section we present analyses of carbon and nitrogen storage in relation to latitude, climate, ecosystem, and parent material.

Figure 4.2 shows average carbon and nitrogen storage and carbon-nitrogen ratio along with 95% confidence intervals ranging from the equator to 75° north or south latitude. The means and confidence intervals for each latitude are computed from samples within that latitude band and from the surrounding eight degree bands, four on either side. The general trend with latitude shows a peak in carbon and nitrogen storage in the tropics (0° to 25°), a minimum in the subtropic dry latitudes (25° to 30°), a second peak in the high latitudes (50° to 65°), and finally low amounts in the highest latitude (>65°) where soils are immature. Hypothetically, these peaks are related to excess of carbon additions over losses typical of tropical and cool regions due to interactions of productivity and decomposition rates with environmental factors such as temperature, aeration, and fertility. Differences in

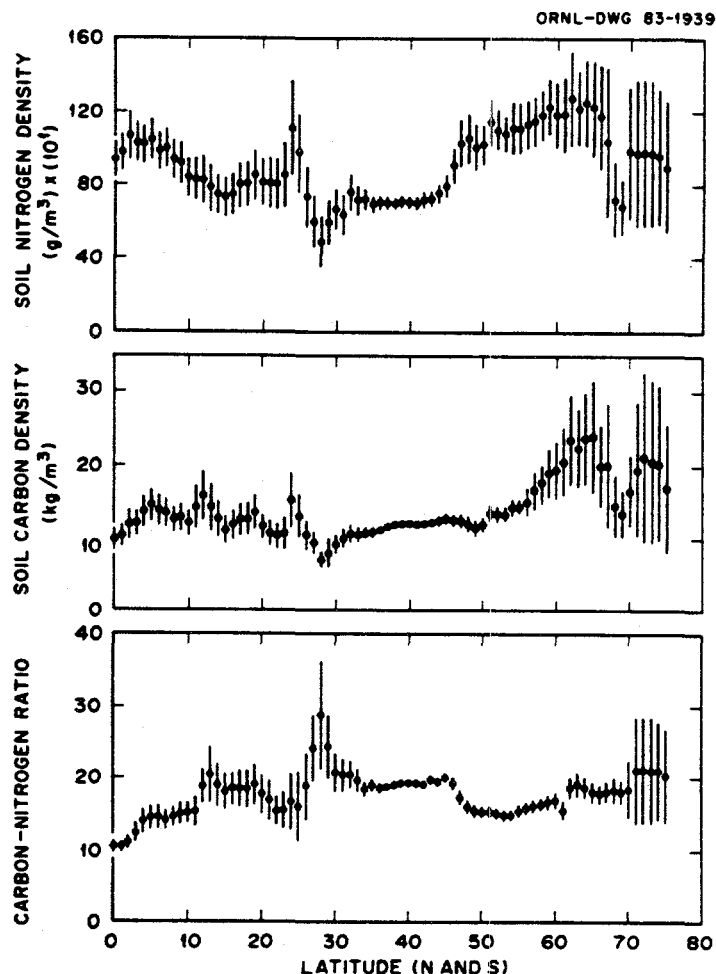


Fig. 4.2. Nine-degree running average of mineral soil nitrogen, carbon content, and C:N ratio. Means are represented by solid dots and vertical lines indicate 95% confidence intervals.

the size of the 95% confidence intervals in Fig. 4.2 is largely due to the number of samples in each class.

Organizing the soil profile data of the less disturbed soils on a climatic basis according to the Holdridge (1947) Life-Zone Classification System, we observe a strong relationship between climate and soil carbon density (Post et al. 1982). The contours of soil carbon density displayed in Fig. 4.3 reflect the balance of input and loss of carbon imposed by climate. Soil carbon density increases from left to right due to greater organic matter production with higher annual precipitation. This effect is clearest in the tropics where temperature does not limit productivity. The effect of temperature is greater than that of precipitation so that soil carbon density increases (Fig. 4.3) with decreasing biotemperature for any particular annual precipitation. Organic matter production decreases with temperature, but low temperatures limit soil organic matter decomposition.

The combined influence of temperature and precipitation is clarified by the third (upper left) axis of the Holdridge diagram (Fig. 4.3), the ratio of potential evapotranspiration (PET) to annual precipitation. When this ratio is less than 1.0, rainfall exceeds potential evapotranspiration and vice versa. All the life zones bordering the unit PET ratio line have soil carbon densities of around $10 \text{ kg} \cdot \text{m}^{-3}$, except in the warm temperate and subtropical belts. There a strong seasonality

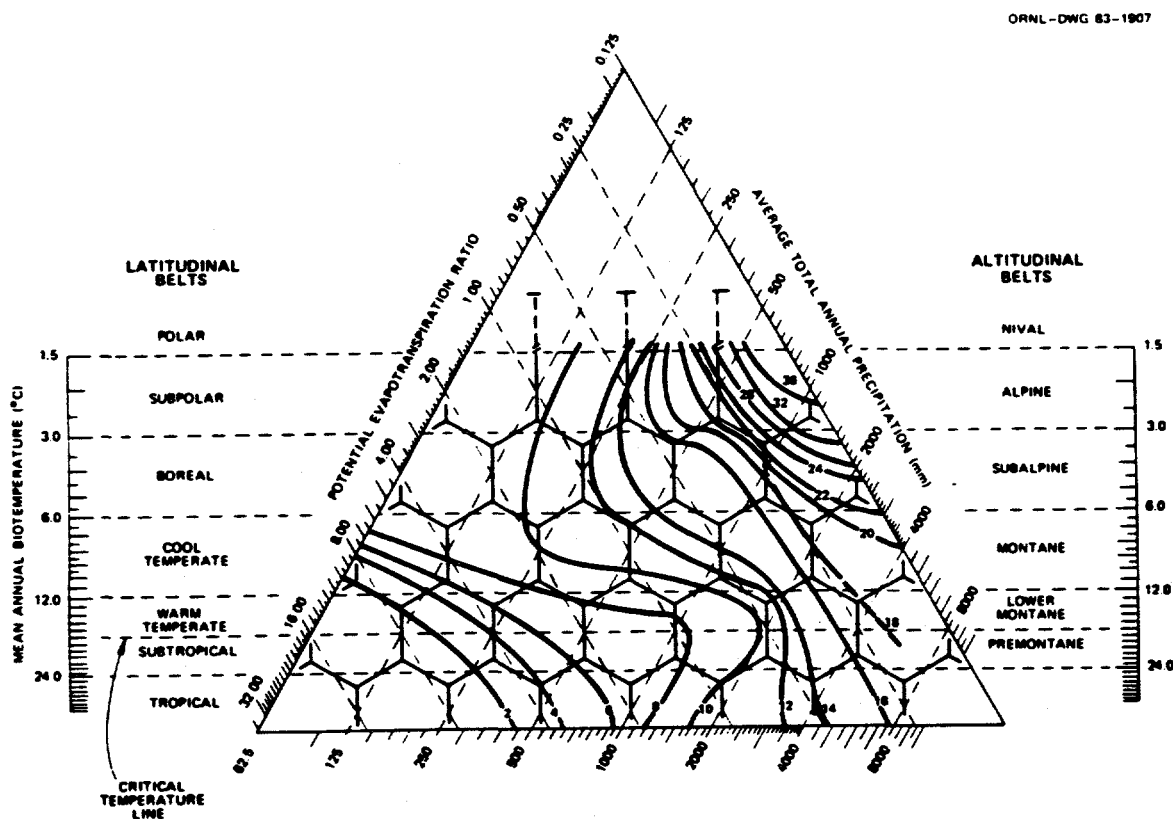


Fig. 4.3. Soil organic carbon (kg per surface cubic meter). Dark curves represent isolines of soil carbon density on the Holdridge life zone chart (see Holdridge 1947).

commonly limits production, but decomposition conditions are favorable for most of the year. This introduces an area of low soil carbon density in the life zones of this part of the diagram. Perpendicular to this line, soil carbon density uniformly increases as the PET ratio decreases, indicating not only increased vegetative productivity with humidity but possible inhibition of soil organic matter decomposition in waterlogged soils of the superhumid life zones. Conversely, as the ratio of PET to precipitation increases, soil carbon density decreases.

Soil nitrogen has a broadly similar climatic pattern to carbon when displayed on the Holdridge life zone diagram (Fig. 4.4). This results in a fairly uniform trend in soil carbon-nitrogen ratios (Fig. 4.5). In arid regions the carbon-nitrogen ratio is low and increases with increasing humidity, particularly with decreasing temperatures. Carbon data are further summarized by continents in Table 4.1.

Table 4.2 summarizes soil carbon storage by major ecosystem group, approximately matching the legend elements of the world map of Olson and Watts (1982) and described in Olson et al. (1983). Almost all ecosystems dominated by trees have soil carbon densities ranging from 10 to 20 $\text{kg} \cdot \text{m}^{-3}$. This includes most seasonally dry tropical forests. Where these intergrade and alternate with savannas, the mean soil organic carbon density (excluding charcoal) drops to 6 $\text{kg} \cdot \text{m}^{-3}$ and even lower for thorn or succulent woods and scrub (2.1 $\text{kg} \cdot \text{m}^{-3}$). Mediterranean-type vegeta-

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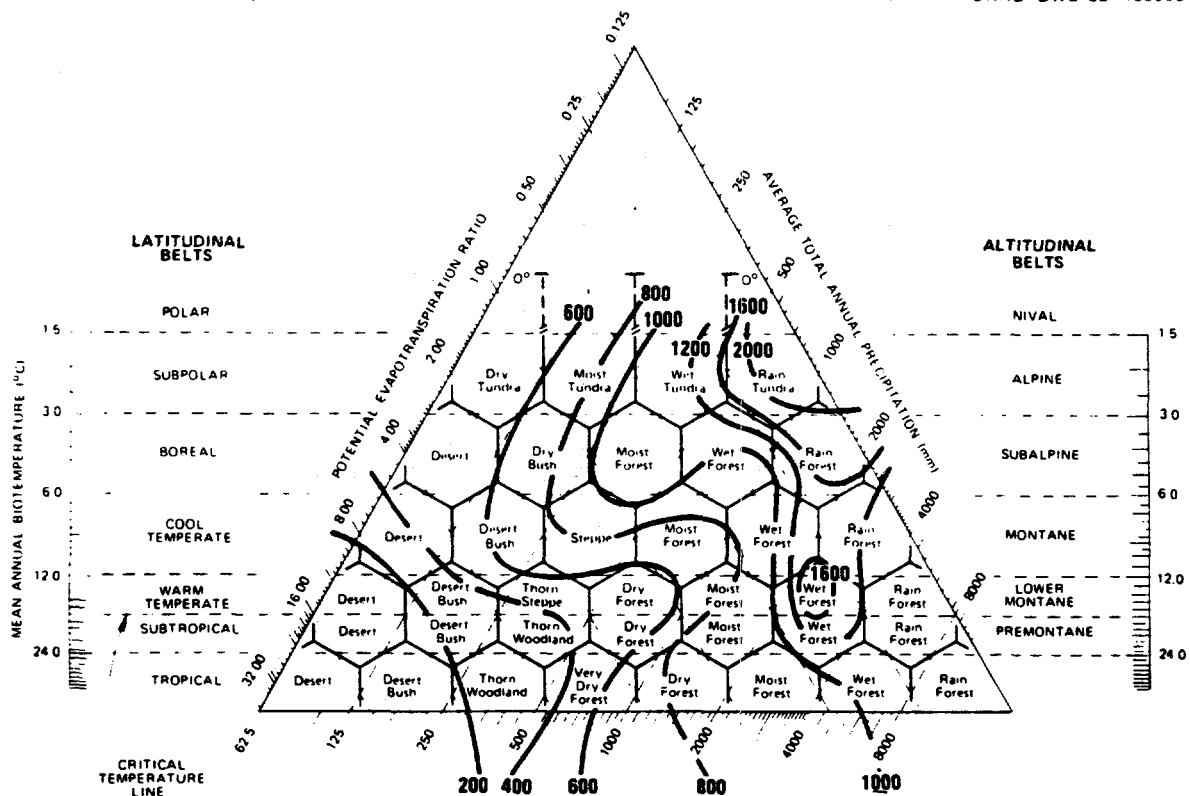


Fig. 4.4. Soil nitrogen (g per surface cubic meter). Dark curves represent isolines of soil nitrogen density on the Holdridge life zone chart.

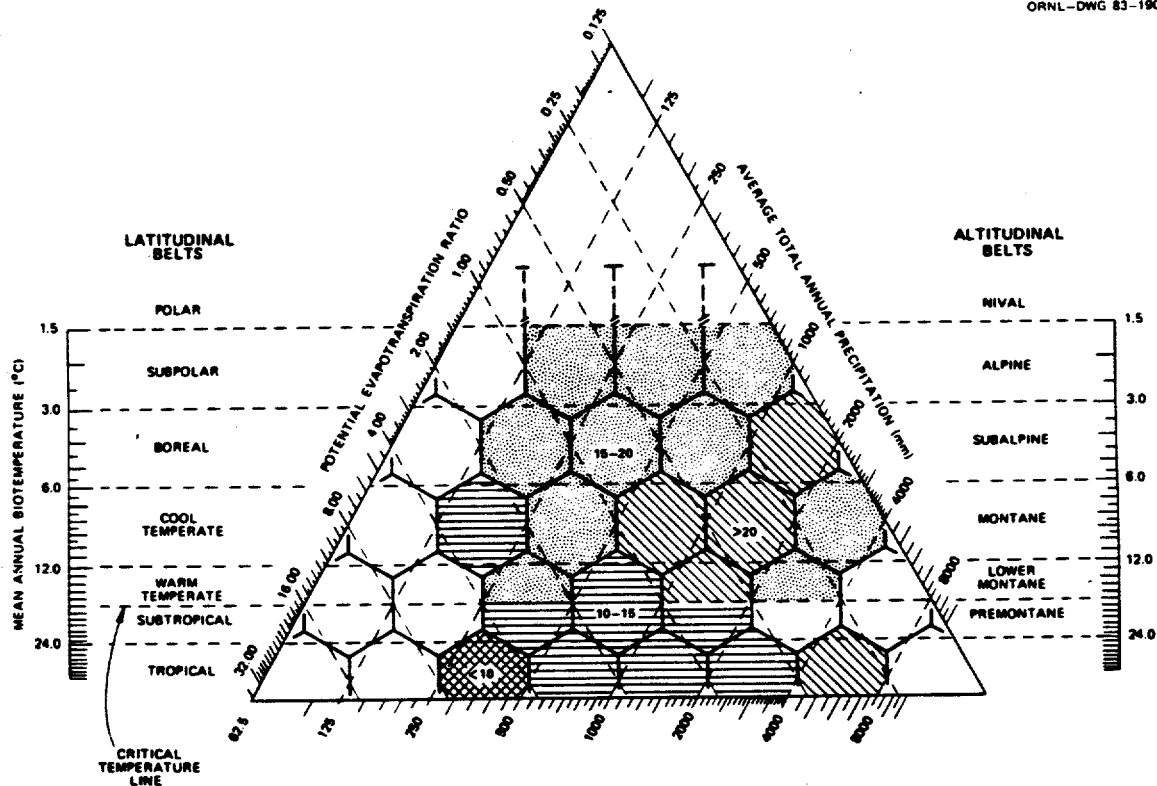


Fig. 4.5. Carbon:nitrogen ratio. Shading pattern indicates range of mean carbon-nitrogen ratios for life zones. Those life zones for which we have no data are left blank.

tion averages $7.5 \pm 6.7 \text{ kg} \cdot \text{m}^{-3}$. Other kinds of sparse woodland and shrubland average between 7 and $13 \text{ kg} \cdot \text{m}^{-3}$.

Tundra samples (including many boggy areas, commonly over permafrost) have a higher carbon density ($18.1 \text{ kg} \cdot \text{m}^{-3}$). At the other extreme, the few samples for warm to hot deserts average $2.5 \text{ kg} \cdot \text{m}^{-3}$, while cooler deserts and semideserts have slightly higher values ($6.0 \text{ kg} \cdot \text{m}^{-3}$).

Special wetland and coastal ecosystems have soils with very high carbon densities. Five samples identified as bog represent one extreme with an average of $177 \text{ kg} \cdot \text{m}^{-3}$. Still high but less extreme ecosystems ($23.4 \text{ kg} \cdot \text{m}^{-3}$) are marshes and swamps with some shrub or tree growth interspersed. Not only wetlands but some other soils may be modified by the conditions of various environments in shoreland complexes. To date, such soils have not been drawn separately from the larger groups with which they have closest affinity.

Ecosystems that are most affected by human activities, omitted from the Holdridge life zone analysis, are summarized separately here. These include second-growth woods and field mosaics that clearly have been influenced by histories of disturbance and recovery as well as those ecosystems subject to permanent conversion such as grazing and crop land and residential, commercial, and artificial park lands. Those derived from forested ecosystems and cool grasslands average between 10 and $15 \text{ kg} \cdot \text{m}^{-3}$. Those derived from warm grasslands have slightly lower soil carbon densities ($8.7 \text{ kg} \cdot \text{m}^{-3}$).

Table 4.1. Soil carbon storage ($\text{kg} \cdot \text{m}^{-3}$) by continent and Holdridge life zone for the less disturbed subset of soils (excluding items in Appendix with "blank" or "?" for life zone designation)

	North America			South America			Asia			Europe		
	$\bar{x}$	σ	N	$\bar{x}$	σ	N	$\bar{x}$	σ	N	$\bar{x}$	σ	N
Dry tundra	3.1	2.2	5									
Moist tundra							10.9	6.4	12			
Wet tundra	23.3	17.0	24				15.5	8.5	4	12.6	13.0	5
Rain tundra	36.6	12.9	8									
Boreal dry bush	10.2	4.6	8									
Boreal moist forest	23.0	45.1	127				10.3	5.9	173	6.9	6.1	5
Boreal wet forest	19.8	8.2	5				9.7	3.2	10	18.0	14.9	9
Boreal rain forest	25.6	12.2	15							44.5	57.7	8
Cool temperate desert	9.7	0.7	4									
Cool temperate desert bush	10.5	6.3	105				7.4	3.4	24			
Cool temperate steppe	10.5	10.1	174				15.8	8.1	201			
Cool temperate moist forest	12.0	8.2	577			1	10.4	8.3	31	13.2	8.5	27
Cool temperate wet forest	16.1	29.2	387									
Cool temperate rain forest	28.9	24.3	3									
Warm temperate desert	1.4	2.0	9									
Warm temperate thorn steppe	7.4	6.5	281							13.8	10.7	10
Warm temperate dry forest	9.4	6.6	85							9.5	6.7	20
Warm temperate thorn forest	6.0	2.6	63									
Warm temperate wet forest				15.8	11.2	13	10.2	3.3	2			
Subtropical desert bush												
Subtropical thorn woodland							3.5		1			
Subtropical dry forest							2.6	2.0	5			
Subtropical moist forest				8.8	5.4	9	6.5		1			
Subtropical wet forest							9.4		1			
Tropical thorn woodland							2.5	2.6	2			
Tropical very dry forest							6.9	4.0	75			
Tropical dry forest	14.1	8.5	7				25.1	32.0	11			
Tropical moist forest	23.4	11.2	24				6.6	5.0	70			
Tropical wet forest				16.1	9.3	20	9.7		1			
Summary by continent	12.8	18.0	1911	9.9	7.6	259	11.3	8.6	624	15.5	8.6	624

Table 4.1 (continued)

	Africa			Australia			Atlantic/ Caribbean			Pacific Islands (including Japan)		
	$\bar{x}$	σ	N	$\bar{x}$	σ	N	$\bar{x}$	σ	N	$\bar{x}$	σ	N
Dry tundra												
Moist tundra												
Wet tundra												
Rain tundra												
Boreal dry bush												
Boreal moist forest												
Boreal wet forest												
Boreal rain forest												
Cool temperate desert												
Cool temperate desert bush												
Cool temperate steppe												
Cool temperate moist forest										36.2	4.4	2
Cool temperate wet forest										27.0	17.9	55
Cool temperate rain forest										18.5	9.3	14
Warm temperate desert												
Warm temperate thorn steppe												
Warm temperate dry forest												
Warm temperate thorn forest												
Warm temperate wet forest										15.5	8.4	20
Subtropical desert bush										26.8	23.4	52
Subtropical thorn woodland												
Subtropical dry forest	5.6	2.2	17	29.1		1						
Subtropical moist forest	13.9	18.5	8	17.9	4.6	4						
Subtropical wet forest	10.4		1	11.2	1.8	3						
Tropical thorn woodland												
Tropical very dry forest	2.7	1.1	8									
Tropical dry forest	7.6	8.2	17				7.0	0.6	2			
Tropical moist forest												
Tropical wet forest	6.8		1									
Summary by continent	7.1	9.0	52	14.1	6.2	20	7.0	0.6	2	24.6	15.0	143

Table 4.1 (continued)

	Indian Ocean/ Indonesia		Miscellaneous		Summary by Life Zone	
	$\bar{x}$	σ	$\bar{x}$	σ	$\bar{x}$	σ
Dry tundra					3.1	2.2
Moist tundra					10.9	6.4
Wet tundra					20.7	16.0
Rain tundra					36.6	12.9
Boreal dry bush					10.2	4.6
Boreal moist forest					15.5	30.0
Boreal wet forest					14.9	10.7
Boreal rain forest					32.2	35.2
Cool temperate desert					9.7	0.7
Cool temperate desert bush					9.9	6.0
Cool temperate steppe					13.3	9.5
Cool temperate moist forest					12.0	8.2
Cool temperate wet forest					17.5	23.8
Cool temperate rain forest					20.3	12.7
Warm temperate desert					1.4	1.0
Warm temperate thorn steppe					7.5	6.8
Warm temperate dry forest					8.3	4.6
Warm temperate thorn forest					9.3	7.4
Warm temperate wet forest					26.8	13.4
Subtropical desert bush					29.1	1
Subtropical thorn woodland					5.4	2.2
Subtropical dry forest					11.5	13.9
Subtropical moist forest					9.2	1.2
Subtropical wet forest					9.4	1
Tropical thorn woodland					2.5	2.6
Tropical very dry forest			3.5	0.8	6.9	4.9
Tropical dry forest			10.9	1	10.2	11.1
Tropical moist forest	12.7	15.8	37		11.4	11.7
Tropical wet forest			1		15.0	9.2
Summary by continent	12.7	15.8	37	5.5	12.8	15.9
			3.3	5		3137

Table 4.2. Soil carbon storage ($\text{kg} \cdot \text{m}^{-3}$) by continent and ecosystem

Major world ecosystem complexes ^a	North America			South America			Asia			Europe		
	$\bar{x}$	σ	N	$\bar{x}$	σ	N	$\bar{x}$	σ	N	$\bar{x}$	σ	N
Main taiga	25.8	62.4	111				9.3	5.9	34			
Cool conifer forest	12.9	9.7	567				4.6	4.3	7	13.5	8.6	26
Cool hardwoods-conifer mixed woods	11.3	7.7	49							22.5	13.9	4
Warm broadleaf conifer mixed woods	9.9	8.1	53	15.8	11.2	13						
Cool deciduous forest	12.3	9.7	76	11.1	0.0	1				12.4	6.7	5
Warm broad-leaved forest	8.5	4.0	27				31.5	29.6	18	15.7	7.6	7
Warm conifer forest	12.8	7.1	319	32.1	6.5	7	8.7	1.0	2	6.8		1
Tropical/subtropical broad-leaved humid forest	27.4	11.2	24	10.4	7.7	199	6.9	4.3	132			
Cool farms or grass/scrub	10.4	6.2	11									
Warm farms or grass/scrub	8.5	8.2	30							6.9	2.9	14
Seasonally dry tropical woodland				10.0	4.7	11	11.8	6.8	7			
Paddylands and associated woods												
Cool grassland	11.0	8.6	412				14.6	8.1	226			
Miscellaneous grassland	8.7	6.7	78									
Cold rangelands										24.7	12.2	2
Tropical savanna and woodland	14.1	8.5	7	5.1	2.2	19	4.8	2.6	13			
Bogs and bog woods	217.2	187.2	3							117.0	94.2	2
Marsh, swampwoods and littoral	33.3		1	30.2	46.3	6	11.0	6.3	5			
Mediterranean scrub/wood/savanna	7.2	6.3	243							20.2	11.8	5
Sparse woodland/shrubland	7.8	3.9	63									
Warm semiarid woodlands												
Low scrub				3.5	1.5	12						
Sand/scrub/herb desert	10.3		1				3.5		1			
Hot subdesert/desert shrubland	1.4	1.0	9				4.0		1	4.0	1.6	3
Cool/cold semidesert/shrubland	7.4	4.3	4				1.1		1			
Tundra	22.9	18.7	24				10.9	6.4	12	12.6	13.0	5
Cool farms, grass/scrub with woods	13.9	9.9	32							15.0	11.2	5
Warm forest/farm complex				11.5		1						
Cool forest/farm complex										6.0		1
Warm farm, grass, scrub with woods	11.7	11.9	12	6.3	1.3	3	4.0		1			
Tropical thorn/succulent woods							2.1	1.9	5			
Midcontinental southern taiga							12.3	12.0	179			
Northern or maritime taiga	31.1	5.2	2							3.9	2.9	4
Wooded tundra	16.6	14.7	20									
Heath, moorland	11.4	6.2	5							20.2	14.6	6
Average over ecosystems	12.6	17.1	2183	10.9	10.8	272	11.9	10.7	644	15.5	20.8	89

^aOlson and Watts 1982, Olson et al. 1983.

Table 4.2 (continued)

Major world ecosystem complexes ^a	Africa			Australia			Atlantic/Caribbean			Pacific Islands (including Japan)		
	$\bar{x}$	σ	N	$\bar{x}$	σ	N	$\bar{x}$	σ	N	$\bar{x}$	σ	N
Main taiga												
Cool conifer forest										24.2	14.7	117
Coal hardwoods-conifer mixed woods	7.8		1							38.8	1.8	2
Warm broadleaf conifer mixed woods	4.5		6									
Cool deciduous forest				21.6		1				25.8	17.3	22
Warm broad-leaved forest	23.0	12.7	3									
Warm conifer forest	36.6		1									
Tropical/subtropical broad-leaved humid forest	17.9	18.8	10				14.0	0.6	2			
Cool farms or grass/scrub												
Warm farms or grass/scrub	5.4	2.7	7									
Seasonally dry tropical woodland				13.4	4.7	4						
Paddylands and associated woods												
Cool grassland				17.2	3.6	2				21.0	0.7	2
Miscellaneous grassland												
Cold rangelands												
Tropical savanna and woodland	5.2	3.1	29									
Bogs and bog woods												
Marsh, swampwoods and littoral												
Mediterranean scrub/wood/savanna				10.2	5.1	6						
Sparse woodland/shrubland												
Warm semiarid woodlands				10.2	1.3	3						
Low scrub												
Sand/scrub/herb desert												
Hot subdesert/desert shrubland	4.1	2.5	2									
Cool/cold semidesert/shrubland												
Tundra												
Cool farms, grass/scrub with woods												
Warm forest/farm complex												
Cool forest/farm complex												
Warm farm, grass, scrub with woods	2.7		1	20.1	7.4	4	11.2	4.2	3			
Tropical thorn/succulent woods												
Midcontinental southern taiga												
Northern or maritime taiga												
Wooded tundra												
Heath, moorland												
Average over ecosystems	8.7	10.6	60	14.1	6.2	20	12.3	2.7	5	24.6	15.0	143

Table 4.2 (continued)

Major world ecosystem complexes ^a	Indian Ocean/Indonesia			Miscellaneous			Average over continents		
	$\bar{x}$	σ	N	$\bar{x}$	σ	N	$\bar{x}$	σ	N
Main taiga							21.9	62.7	145
Cool conifer forest							14.7	11.4	717
Coal hardwoods-conifer mixed woods							13.0	9.5	56
Warm broadleaf conifer mixed woods							10.5	8.9	72
Cool deciduous forest							15.2	12.6	105
Warm broad-leaved forest	13.3	18.0	28	8.5	3.3	2	16.1	19.2	85
Warm conifer forest							13.2	7.7	330
Tropical/subtropical broad-leaved humid forest	9.5	4.5	13				10.4	8.8	380
Cool farms or grass/scrub							10.4	6.2	11
Warm farms or grass/Scrub				4.4	.3	2	7.5	6.5	53
Seasonally dry tropical woodland							11.2	5.3	22
Paddylands and associated woods	14.0	9.7	7				14.0	9.7	7
Cool grassland							12.3	8.6	642
Miscellaneous grassland							8.7	6.7	78
Cold rangelands							24.7	12.2	2
Tropical savanna and woodland				2.6		1	6.0	4.5	69
Bogs and bog woods							177.1	150.9	5
Marsh, swampwoods and litteral	34.7		1				23.4	31.9	13
Mediterranean scrub/wood/savanna							7.5	6.7	254
Sparse woodland/shrubland							7.7	3.9	63
Warm semiarid woodlands							10.2	1.3	3
Low scrub							3.5	1.5	12
Sand/scrub/herb desert							6.9	4.8	2
Hot subdesert/desert shrubland							2.5	1.8	15
Cool/cold semidesert/shrubland							6.2	4.6	5
Tundra							18.2	16.2	41
Cool farms, grass/scrub with woods							14.1	9.9	37
Warm forest/farm complex				3.8		1	7.7	5.9	2
Cool forest/farm complex							6.0	0.0	1
Warm farm, grass, scrub with woods							11.7	10.1	24
Tropical thorn/succulent woods							2.1	1.9	5
Midcontinental southern taiga							12.3	12.0	179
Northern or maritime taiga							12.9	14.4	6
Wooded tundra							16.6	14.7	20
Heath, moorland							15.8	11.6	10
Average over ecosystems	12.8	14.5	49	5.3	2.9	6	12.0	15.8	3471

The relatively large amount of variation in the soil measurements reported here is due to variation in soil-forming factors that we have not considered in the analysis. We have controlled the influences of human disturbance and climate but not those due to topography, parent material, nutrient status, or vegetative productivity. These uncontrolled factors have a large effect on soil carbon density. For example, Table 4.3 presents an analysis of profiles by parent material (those for which it is known). Soils derived from nutrient-rich volcanic material (basic extrusive) have much higher carbon contents on average than soils from other parent materials. While it is theoretically possible to complete a multifactor analysis of soil carbon density accounting for soil-forming factors, such an analysis would require many more data than are currently available and more deliberate segregation and search for contrasting scales of the most important factors.

Table 4.3. Soil carbon density by parent material

Parent material	Mean carbon ($\text{kg} \cdot \text{m}^{-3}$)	σ	Number of samples
Acid intrusive	10.9	8.9	2356
Basic intrusive	12.2	5.8	28
Ultrabasic	10.6	4.7	25
Acid extrusive	15.1	10.2	67
Basic extrusive	21.8	26.0	43
Sedimentary (consolidated)	12.6	11.4	235
Metamorphic	11.2	6.8	131
Sedimentary (weakly consolidated)	14.9	11.4	110

5. THE GLOBAL SOIL CARBON AND NITROGEN POOL

Various recent estimates of the global total of soil organic carbon range between 700×10^{15} (Bolin 1970) and 2190×10^{15} g (Bohn 1982), with several intermediate estimates of 1080×10^{15} (Baes et al. 1977), 1392×10^{15} (Bazilevich 1974), 1456×10^{15} (Schlesinger 1977), and 2070×10^{15} g (Ajtay et al. 1979). In an analysis of 2700 profiles of a previous version of this data base (Post et al. 1982), we estimated the global soil organic carbon pool to be approximately 1400×10^{15} g with a standard deviation of 200×10^{15} g.

Recently a map of the potential Holdridge life zones, based on average climate from 1930 to 1970, has been produced (Emanuel et al. in preparation) for the entire globe. This map allows the calculation of areal extent of Holdridge life zones which, combined with the results of Figs. 4.3 and 4.4, can be used to compute global estimates of soil organic carbon and nitrogen, assuming all vegetation is in equilibrium with this average climate (i.e., potential natural vegetation). Table 5.1 shows the intermediate calculations. Carbon and nitrogen densities were interpolated from Figs. 4.3 and 4.4. The value of 1309×10^{15} g is well within one standard deviation of our previous estimate. Similar calculations place the estimate of soil organic nitrogen at 96.8×10^{15} g.

An alternative estimate of carbon and nitrogen storage in soils may be computed using land area in one degree latitudinal bands (north and south latitudes combined) rather than life zones. Calculations summarized in Table 5.2 result in an estimate of 1728×10^{15} g of carbon and 117×10^{15} g of nitrogen. The carbon and nitrogen densities used in these calculations are the mean densities of all profiles within one degree latitude bands.

Table 5.1. Preliminary combinations of areas of climates (Holdridge life zone), estimated carbon, and nitrogen in soil profiles to 1-m depth
[Based only on classified, less disturbed profiles (Category A) in Appendix]

No.	Life zone	Area (10^{12} m ²)	Carbon density (kg·m ⁻³)	Nitrogen density (g·m ⁻³)	Carbon content (10^{15} g)	Nitrogen content (10^{12} g)
1	Ice ^a	2.042	0.0	0	0	0
2	Dry tundra	0	3.1	500.0	0	0
3	Moist tundra	2.722	10.9	638.5	29.7	1,738.0
4	Wet tundra	1.505	20.7	1251.3	31.1	1,883.2
5	Rain tundra	0.030	36.6	2,226.0	1.0	66.8
6	Boreal desert	0.027	10.0	500.0	0.2	13.5
7	Boreal dry bush	1.292	10.2	631.0	13.3	815.3
8	Boreal moist forest	12.801	15.5	1,034.1	198.4	13,237.5
9	Boreal wet forest	4.289	15.0	980.1	64.3	4,203.6
10	Boreal rain forest	0.308	32.2	1,512.2	9.9	465.8
11	Cool temperate desert	1.613	9.7	500.0	15.6	806.5
12	Cool temperate desert bush	4.046	9.9	779.8	40.0	3,155.0
13	Cool temperate steppe	9.180	13.3	1,032.2	122.0	9,475.6
14	Cool temperate moist forest	9.358	12.0	626.1	112.3	5,859.0
15	Cool temperate wet forest	1.642	17.5	930.6	28.7	1,528.0
16	Cool temperate rain forest	0.266	20.3	800.0	5.4	212.8
17	Warm temperate desert	9.350	1.4	106.5	13.1	995.8
18	Warm temperate desert bush	7.705	6.0	300.0	46.2	2,311.5
19	Warm temperate thorn steppe	7.702	7.6	538.0	58.5	4,143.7
20	Warm temperate dry forest	9.691	8.3	644.8	80.4	6,248.8
21	Warm temperate moist forest	9.307	9.3	648.3	86.6	6,033.7
22	Warm temperate wet forest	0.673	26.8	1806.6	18.0	1,215.8
23	Warm temperate rain forest	0.044	27.0	700.0	1.2	30.8
24	Subtropical desert	0.562	1.4	100.0	0.6	56.2
25	Subtropical desert bush	0.545	3.0	2282.6	1.6	1,244.0
26	Subtropical thorn woodland	1.415	5.4	379.3	7.6	535.7
27	Subtropical dry forest	4.936	11.5	1070.4	56.8	5,283.5
28	Subtropical moist forest	9.905	9.2	987.9	91.1	9,785.1
29	Subtropical wet forest	0.929	9.4	2,853.4	8.7	2,650.8
30	Subtropical rain forest	0.023	15.0	600.0	0.3	13.8
31	Tropical desert	1.447	1.0	50.0	1.4	72.4
32	Tropical desert bush	0.212	1.0	50.0	0.2	10.6
33	Tropical thorn woodland	0.315	2.6	264.6	0.8	83.3
34	Tropical very dry forest	1.461	6.9	597.2	10.1	872.5
35	Tropical dry forest	6.514	10.2	885.9	66.4	5,770.8
36	Tropical moist forest	7.182	11.4	802.9	81.9	5,766.4
37	Tropical wet forest	0.297	14.5	655.2	4.2	192.6
38	Tropical rain forest	0.003	18.0	600.0	0.0	1.8
Totals		131.336			1,308.6	96,781.4

^aDoes not include Greenland.

Table 5.2. Preliminary combinations of areas of latitude belts and estimated carbon and nitrogen in soil profiles to 1-m depth

Latitude	Area ^a (10 ¹² m ²)	Carbon density (kg·m ⁻³)	Nitrogen density (g·m ⁻³)	Carbon content (10 ¹⁵ g)	Nitrogen content (10 ¹² g)
0	1.930	9.9	941.1	19.1	1,816.3
1	2.020	10.4	980.6	21.0	1,980.8
2	2.020	11.9	1,073.1	24.0	2,167.6
3	2.040	12.2	1,036.2	24.8	2,113.8
4	2.020	13.8	1,024.4	27.8	2,069.2
5	2.060	14.7	1,050.0	30.2	2,162.9
6	2.090	14.0	987.9	29.2	2,064.7
7	2.150	13.6	1,005.4	29.2	2,161.6
8	2.110	12.7	941.9	26.7	1,987.4
9	1.960	13.0	928.3	25.4	1,819.4
10	1.880	12.2	847.0	22.9	1,592.3
11	1.770	14.4	831.5	25.4	1,471.7
12	1.840	16.0	829.3	29.4	1,525.9
13	1.920	14.4	785.9	27.6	1,508.9
14	2.040	12.8	749.4	26.1	1,528.7
15	2.110	11.3	734.6	23.8	1,550.0
16	2.190	12.0	753.3	26.2	1,649.7
17	2.260	12.7	804.7	28.7	1,818.6
18	2.330	12.8	810.8	29.8	1,889.1
19	2.290	13.7	861.9	31.3	1,973.7
20	2.340	11.7	821.2	27.3	1,921.6
21	2.450	10.8	816.0	26.4	1,999.2
22	2.520	10.5	810.0	26.4	2,041.2
23	2.480	10.8	859.3	26.7	2,131.0
24	2.450	15.3	1121.7	37.4	2,748.1
25	2.440	13.2	985.0	32.2	2,403.3
26	2.460	10.5	739.9	25.8	1,820.1
27	2.490	9.5	602.7	23.6	1,500.7
28	2.470	7.1	490.1	17.5	1,210.5
29	2.450	8.0	599.7	19.6	1,469.2
30	2.490	9.3	674.9	23.1	1,680.5
31	2.360	10.1	642.7	23.8	1,516.7
32	2.170	10.8	770.2	23.4	1,671.3
33	2.030	10.6	723.6	21.5	1,468.9
34	1.890	10.9	729.3	20.6	1,378.3
35	1.820	11.0	702.2	20.0	1,278.0
36	1.810	11.3	709.9	20.4	1,284.9
37	1.770	11.8	708.8	20.8	1,254.5
38	1.670	12.1	706.2	20.2	1,179.3
39	1.640	12.2	717.8	20.0	1,177.1
40	1.690	12.2	716.7	20.6	1,211.2
41	1.650	12.1	709.3	19.9	1,170.3
42	1.620	12.2	729.2	19.7	1,181.3
43	1.640	12.3	734.7	20.1	1,204.9

Table 5.2 (continued)

Latitude	Area ^a (10 ¹² m ²)	Carbon density (kg m ⁻³)	Nitrogen density (g m ⁻³)	Carbon content (10 ¹⁵ g)	Nitrogen content (10 ¹² g)
44	1.640	12.6	767.1	20.6	1,258.0
45	1.660	12.9	808.4	21.4	1,341.9
46	1.690	12.7	920.7	21.4	1,555.9
47	1.730	12.6	1,041.7	21.7	1,802.1
48	1.750	12.2	1,069.9	21.3	1,872.3
49	1.720	11.6	1,022.9	19.9	1,759.3
50	1.710	12.0	1,037.7	20.5	1,774.4
51	1.700	13.6	1,160.7	23.1	1,973.1
52	1.670	13.5	1,119.7	22.5	1,869.8
53	1.610	13.5	1,097.2	21.7	1,766.4
54	1.490	14.4	1,131.9	21.4	1,686.5
55	1.380	14.6	1,125.6	20.1	1,553.3
56	1.340	15.2	1,149.2	20.3	1,539.9
57	1.270	16.8	1,168.3	21.3	1,483.7
58	1.250	17.8	1,199.7	22.2	1,499.6
59	1.270	19.2	1,244.8	24.3	1,580.8
60	1.370	19.7	1,202.3	26.9	1,647.1
61	1.370	20.8	1,205.4	28.4	1,651.3
62	1.400	23.8	1,291.7	33.3	1,808.3
63	1.370	22.7	1,237.5	31.0	1,695.3
64	1.350	24.0	1,269.0	32.4	1,713.1
65	1.280	24.3	1,242.6	31.1	1,590.5
66	1.220	20.2	1,191.5	24.6	1,453.6
67	1.170	20.3	1,052.6	23.7	1,231.5
68	1.020	14.6	734.2	14.8	748.8
69	0.838	13.6	694.1	11.8	581.6
70	0.605	16.7	1,004.0	10.1	607.4
71	0.441	19.7	993.1	8.6	437.9
72	0.356	21.4	993.1	7.6	353.5
73	0.228	20.8	993.1	4.7	226.4
74	0.147	20.6	974.9	3.0	143.3
75	0.195	17.1	921.7	3.3	179.7
Totals	131.330			1728.0	117,000.0

6. CONCLUSIONS

The distribution of 3583 soil profiles (more than 3100 relatively undisturbed soil profiles allocated by Holdridge life zones) over the continents and latitudes still has some uneven coverage of the world (Table 4.2). Stratifying the samples broadly according to associated vegetation quantifies the main differences between soil carbon and nitrogen in the surface meter of soils of many forests and woodlands, grasslands, and a few wet shrublands, tundra, and desert ecosystem complexes. Using a life zone classification based on physical parameters of temperature and precipitation, consistently low values of organic C and N ($<4 \text{ kg}\cdot\text{m}^{-3}$ and $<400 \text{ g}\cdot\text{m}^{-3}$) in regions where potential evapotranspiration exceeds precipitation by a factor of 4 (lower left corner of triangle diagrams in Figs. 4.3 to 4.5). Moving right along the lower edge of the triangle to the hottest wet lowland regions sampled, organic nitrogen increases rapidly to $>800 \text{ g}\cdot\text{m}^{-3}$ in moist forests, but carbon continues increasing to $16 \text{ kg}\cdot\text{m}^{-3}$ in some of the wettest lowland rain forests, doubling the C:N ratio to 20.

Representation of cold, dry landscapes leaves some doubt about the form of carbon and nitrogen contours near the upper left edge of Figs. 4.3 to 4.5. Clearly the soils near the upper right edge have the most carbon, exceeding $20 \text{ kg}\cdot\text{m}^{-3}$ both in high latitudes and in some of the high altitudes (Fig. 4.3). Soil nitrogen exceeds $1200 \text{ g}\cdot\text{m}^{-3}$ in many of the same areas and also in the premontane and lower montane tropical, subtropical, or warm temperature zones. Cross-hatching on Fig. 4.5 indicates some broad contrasts in average carbon-nitrogen ratios (commonly exceeding 15 or even 20 for more of the cooler soils and the wetter forests of the world). Tropical to warm temperate soils of intermediate moisture are the ones that show intermediate C:N (mostly 10-15).

Global estimates of the sizes of the soil organic carbon and nitrogen pools using the data in the appendix of this report vary according to the method used in projecting the cubic meter pedon data over regions, followed by summing to a total. Classifying a subset of relatively undisturbed profiles into Holdridge life zones, we arrive at $1309 \times 10^{15} \text{ g}$ of carbon and $97 \times 10^{15} \text{ g}$ of nitrogen in the world's soils. These estimates are made by assuming that all of the world's vegetation and soils are in equilibrium with present-day climate. A separate calculation which includes a small amount of data from disturbed soil profiles is based on a latitudinal summary of the data. The average organic carbon and nitrogen density of profiles from one degree latitude bands is multiplied by the earth's surface area in the respective latitude bands to arrive at $1728 \times 10^{15} \text{ g}$ carbon and $117 \times 10^{15} \text{ g}$ nitrogen. Neither estimate accounts for changes in these pools due to human disturbance. The difference in these estimates is largely due to the weight given to each profile when associating areas of land surface to the measured densities. This reflects our lack of knowledge about the spatial extent of soil properties as well as inadequacies in representation of certain life zones or latitude bands in the data base.

Knowledge of the sizes of the global carbon and nitrogen pools is necessary in understanding the role of these pools in global carbon and nitrogen cycling. This information by itself, however, is not sufficient to determine the rates of interaction of these pools with other components of their global cycles, particularly atmosphere and terrestrial vegetation. One also needs estimates of the turnover rate or mean residence time of these elements under different conditions, particularly human induced modification of vegetation. While some information concerning carbon and nitrogen contents of agricultural and grazing lands is included in this data base (see Table 4.2), this was not our primary objective. The majority of the data assembled and presented in the Appendix are from profiles associated with natural vegetation and thereby form a baseline against which the effects of disturbance or modification can be evaluated.

7. REFERENCES

- Allison, L. E. 1965. Methods of Soil Analysis (eds. C. A. Black, D. D. Evans, L. E. Ensminger, J. L. White and F. E. Clark). American Society of Agronomy, Madison, Wisconsin. p. 1372.
- Ajtay, G. L., P. Ketner, and P. Duvingneaud. 1979. Terrestrial primary production and phytomass. pp. 129-181. IN The Global Carbon Cycle-SCOPE Vol. 13 (eds. B. Bolin, E. T. Degens, S. Kemper, and P. Ketner). Wiley, New York.
- Baes, C. F., H. E. Goeller, J. S. Olson, and R. M. Rotty. 1977. Carbon dioxide and climate: The uncontrolled experiment. *Am. Sci.* 65:310-320.
- Bazilevich, N. I. 1974. Energy flow and biological regularities of the world ecosystems. pp. ——. IN Proceedings of the First International Congress of Ecology (ed. H. J. Cave). Pudoc, Wageningen.
- Bolin, B. 1970. The carbon cycle. *Sci. Am.* 223:124-130.
- Bohn, H. L. 1982. Estimate of organic carbon in world soils: II. *Soil Sci. Soc. Ar. J.* 4: 1118-1119.
- California Soil-Vegetation Survey. n.d. Laboratory analysis of soil samples collected during mapping. California Department of Natural Resources, Division of Forestry, Sacramento, California.
- Dickson, B. A. 1952. A chronosequence of soil and vegetation on recent mud-flow deposits on the lower slopes of Mt. Shasta, California. PhD Dissertation. University of California, Berkeley. 149 pp.
- Emanuel, W. R., M. P. Stevenson, R. J. Renka, and H. H. Shugart. A global Holridge life zone map.
- Holdridge, L. R. 1947. Determination of world plant formations from simple climatic data. *Science* 105:367-368.
- Jenny, H. 1941. Factors of Soil Formation. McGraw-Hill, New York.
- Jenny, H. 1980. The Soil Resource, Origin and Behavior. Springer-Verlag, New York.
- Olson, J. S., and J. A. Watts. 1982. Major world ecosystem complexes. Plate I. IN Carbon Dioxide Review: 1982. (ed. W. C. Clark), Oxford University Press, Oxford.
- Olson, J. S., J. A. Watts, and L. J. Allison. 1983. Carbon in Live Vegetation of Major World Ecosystems. ORNL-5862, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Post, W. M., W. R. Emanuel, P. J. Zinke, and A. G. Stangenberger. 1982. Soil carbon pools and world life zones. *Nature* 298:156-159.
- Schlesinger, W. H. 1977. Carbon balance in terrestrial detritus. *Annu. Rev. Ecol. Syst.* 8:51-81.
- Stangenberger, A. G. 1968. The distribution of total nitrogen in some Monterey pine forests and adjacent grasslands. M. S. Thesis. University of California, Berkeley.
- Stangenberger, A. G. 1979. A simulation of nutrient cycling in red fir and Douglas-fir forests. PhD Dissertation. University of California, Berkeley.
- Zinke, P. J. 1965. Mediterranean analogs of California vegetation types. U.S. Army National Lab. Project IK025001A129. 227 pp.

- Zinke, P. J. 1974. Effects of herbicides on soils of South Vietnam. Part B: The Effects of Herbicides in South Vietnam. National Academy of Sciences, Washington, D.C.
- Zinke, P. J. 1976. The banyan trees of Kish Island, Iran. Kish Island Development Corp., Teheran, Iran.
- Zinke, P. J. n.d. Projects 1762, 2595, 2937. Agricultural Exploration Station, University of California, Berkeley.
- Zinke, P. J., S. Sabhasri, and P. Kundstadter. 1978. Soil fertility aspects of the Lua' forest follow system of shifting cultivation. pp. 134-159. IN Farmers in the Forest. East West Center, University of Hawaii, Honolulu.
- Zinke, P. J., A. G. Stangenberger, and W. Colwell. 1979. The fertility of the forest. Calif. Agric. 33:10-11.

APPENDIX

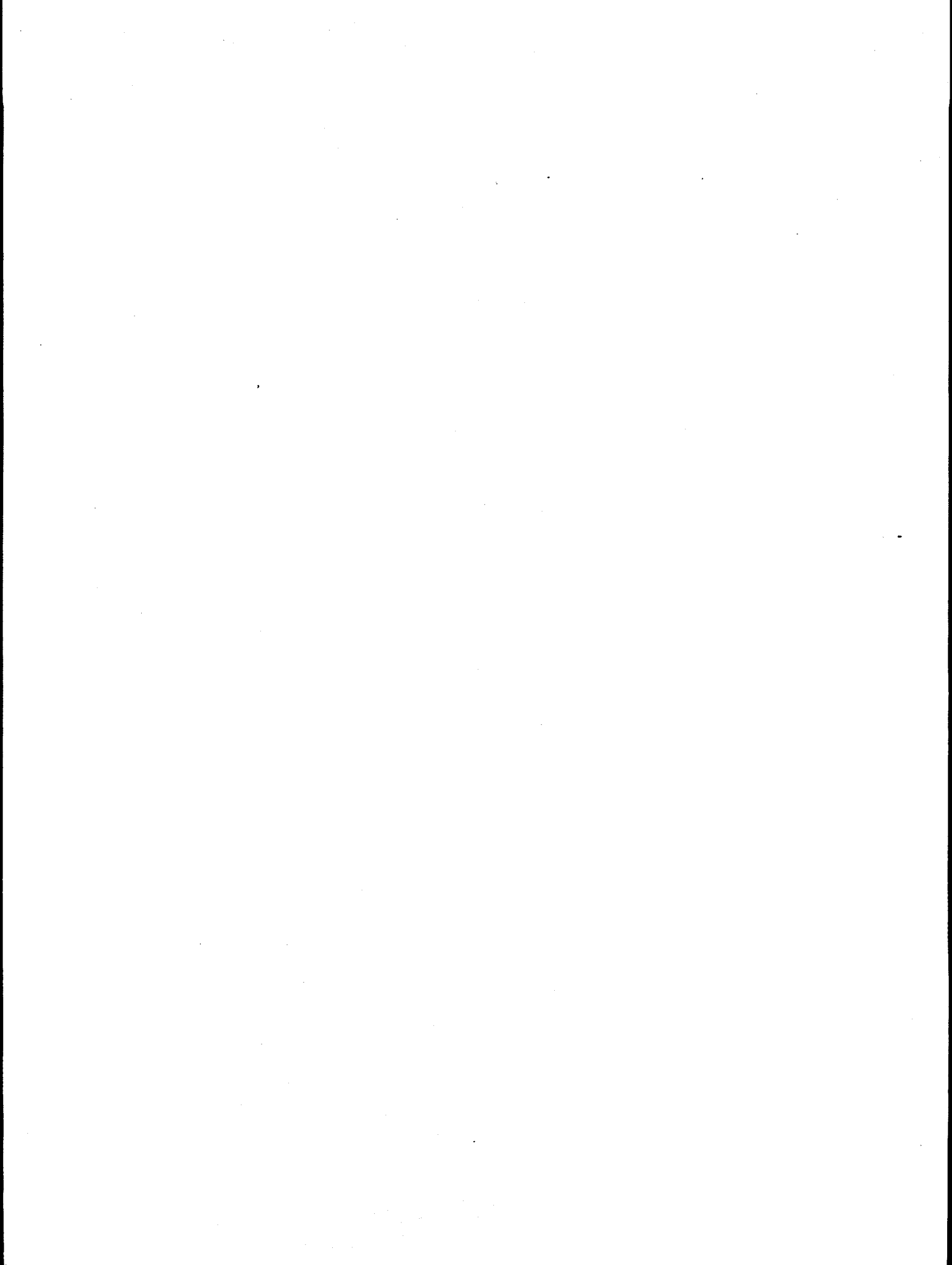


Table A. Soil Profile Data

SOIL DATA OF PROFILES FROM NORTH AMERICA

PROFILE NUMBER	CARBON		NITROGEN		LATITUDE	LONGITUDE	ELEV. SOURCE ¹	CATEGORY ²		
	KG/M**2		G/M**2				M	A	B	C
0001001	27	CO	6.2	234.	39.9N	105.0W		5	D	22
0001002	29	CO	5.9	257.	39.9N	105.9W		5	D	22
0001003	31	CO	3.2	117.	39.9N	105.9W		5	D	22
0001004	33	CO	4.8	204.	39.9N	105.9W		5	D	22
0001005	35	CO	4.2	198.	39.9N	105.9W		5	D	22
0001006	37	CO	3.2	119.	39.9N	105.9W		5	D	22
0001007	39	CO	4.2	190.	39.9N	105.9W		5	D	22
0001008	41	CO	8.3	312.	39.9N	105.9W		5	D	22
0001009	43	CO	7.8	262.	39.9N	105.9W		5	D	22
0001010	55	CO 25 2	3.6	111.	39.9N	105.9W		5	D	22
0001011	58	CO 8 6	6.9	366.	38.9N	106.0W	2896	5	D	22
0001012	58	CO 8 8	17.1	874.	38.9N	106.0W	2896	5	D	22
0001013	85	CO	7.2	268.	39.9N	105.9W		5	D	22
0001014	87	CO	16.7	725.	39.9N	105.9W		5	D	22
0001015	89	CO	6.0	243.	39.9N	105.9W		5	D	22
0001016	91	CO	22.0	1303.	39.9N	105.9W		5	D	22
0001017	57	CO 8 1	2.3	110.	38.8N	106.0W	2966	5	D	22
0001018	57	CO 8 2	3.3	134.	38.8N	106.0W	3004	5	D	22
0001019	57	CO 8 3	2.5	123.	38.8N	106.0W	3034	5	D	22
0001020	63	CO 18 1	3.2	160.	39.2N	104.9W	2195	5	D	22
0001021	63	CO 18 2	4.6	174.	39.2N	104.8W	2210	5	D	22
0001022	55	CO 25 3	3.6	136.	39.9N	105.9W		5	D	22
0001023	55	CO 25 4	3.5	177.	39.9N	105.9W		5	D	22
0001024	55	CO 25 7	2.9	157.	39.9N	105.9W		5	D	22
0001025	55	CO 25 8	4.3	148.	39.9N	105.9W		5	D	22
0001026	55	CO 25 5	3.8	222.	40.0N	105.9W		5	D	22
0001027	55	CO 25 6	3.9	265.	40.0N	105.9W		5	D	22
0001028	59	CO 26 3	2.1	88.	38.9N	106.6W	3018	5	D	22
0001029	59	CO 26 6	0.9	42.	38.9N	106.6W	2987	5	D	22
0001030	58	CO 8 1	9.4	691.	38.9N	106.0W	2810	5	B	40
0002001	59	CO 44 1	6.1	651.	40.5N	103.9W	1433	5	B	40
0002002	59	CO 44 2	4.3	446.	40.5N	103.9W	1448	5	B	40
0002003	55	CO 5 3	6.1	517.	37.3N	102.8W		5	B	40
0002004	63	CO 18 7	14.2	1080.	39.1N	104.7W	2195	5	B	40
0002005	63	CO 18 8	10.7	820.	39.2N	104.8W	2195	5	B	40
0002006	58	CO 18 3	4.1	392.	38.8N	106.0W	2834	5	B	40
0002007	58	CO 8 12	3.6	298.	38.8N	106.0W	2804	5	B	40
0002008	59	CO 44 3	3.4	316.	40.3N	103.9W	1356	5	B	40
0002009	59	CO 44 4	3.7	361.	40.3N	104.0W	1362	5	B	40
0002010	61	CO 3 9	6.4	574.	39.7N	104.2W	1600	5	B	40
0002011	58	CO 8 7	9.3	819.	38.7N	106.0W	2979	5	B	40
0002012	58	CO 8 10	6.1	519.	38.8N	106.0W	2835	5	B	40
0002013	61	CO 3 5	8.7	747.	39.6N	104.0W	1646	5	B	40
0002014	62	CO 3 6	0.0		39.7N	104.1W	1585	5		40
0002015	61	CO 3 8	7.6	678.	39.7N	104.1W	1585	5	B	40
0002016	59	CO 26 4	5.7	431.	38.8N	106.6W	2888	5	B	40
0002017	59	CO 26 5	5.6	484.	38.8N	106.6W	2888	5	B	40
0002018	55	CO 5 1	7.0	603.	37.2N	102.7W		5	B	40
0002019	60	CO 50 2	7.2	738.	38.1N	102.2W	1082	5	B	40
0002020	60	CO 50 5	13.6	1149.	37.8N	102.7W	1250	5	B	40

1. Key to references appears in Table E.

2. Soil profiles are categorized by three criteria: A—Holdridge life zone, B—Olson ecosystem type, C—parent material. The keys to these category codes appear in Tables B, C, and D, respectively.

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON		NITROGEN		LATITUDE		LONGITUDE		ELEV.	SOURCE	CATEGORY		
	KG/M**2		G/M**2						M		A	B	C
0002021	60	CO	50	6	5.3	428.	37.8N	102.6W	1219	5	B	40	
0002022	61	CO	3	4	5.9	594.	39.6N	104.0W	1646	5	B	40	
0002023	61	CO	3	6	7.8	737.	39.6N	104.0W	1554	5	B	40	
0002024	58	CO	8	2	13.4	1183.	38.9N	106.0W	2743	5	B	40	
0002025	58	CO	8	4	13.7	1412.	38.9N	106.0W	2743	5	B	40	
0002026	63	CO	18	9	7.6	437.	39.1N	104.8W	2195	5	B	40	
0002027	63	CO	58	7	11.3	1104.	40.8N	102.3W	1158	5	B	40	
0002028	58	CO	8	9	18.1	993.	38.9N	106.0W		5	B	40	
0002029	61	CO	3	1	7.2	769.	39.6N	103.7W	1524	5	B	40	
0002030	61	CO	3	2	7.6	699.	39.6N	103.8W	0884	5	B	40	
0002031	57	CO	7	1	26.9	1894.	40.1N	105.5W	2500	5	B	40	
0002032	57	CO	7	2	26.1	1939.	40.1N	105.5W	2500	5	B	40	
0002033	63	CO	18	5	8.4	606.	39.2N	104.8W	2195	5	B	40	
0002034	63	CO	18	6	9.4	784.	39.1N	104.7W	2195	5	B	40	
0002035	59	CO	44	9	7.2	626.	40.5N	103.9W	1448	5	B	40	
0002036	57	CO	8	4	2.4	131.	39.9N	106.0W	3019	5	B	40	
0002037	57	CO	8	5	3.0	174.	39.9N	106.0W	2988	5	B	40	
0002038	57	CO	8	6	2.9	139.	39.9N	106.0W	2950	5	B	40	
0002039	58	CO	8	11	11.6	871.	38.9N	106.0W	2865	5	B	40	
0002040	61	CO	20	1	5.8	517.	39.6N	104.5W		5	B	40	
0002041	59	CO	44	7	5.5	500.	40.0N	104.0W	1433	5	B	40	
0002042	55	CO	10	2	15.9	1100.	39.8N	105.9W		5	B	40	
0002043		CO	2	29	22.1	1624.	39.9N	105.9W		5	B	40	
0002044	61	CO	6	1	4.3	550.	38.3N	103.1W		5	B	40	
0002045	61	CO	44	1	4.7	619.	40.4N	104.0W		5	B	40	
0002046	61	CO	3	3	10.2	951.	39.6N	103.9W	1646	5	B	40	
0002047	61	CO	3	7	9.6	885.	39.7N	104.0W	1555	5	B	40	
0003001	55	CO	10	1	92.3	4632.	39.8N	105.9W		5		40	
0003002	57	CO	7	3	8.5	678.	40.1N	105.5W	2500	5	B	40	
0003003	57	CO	7	4	15.3	1017.	40.1N	105.5W	2500	5	B	40	
0003004	57	CO	7	5	18.2	1258.	40.1N	105.5W	2500	5	B	40	
0003005	57	CO	7	6	27.9	1849.	40.1N	105.5W	2500	5	B	40	
0003006		CO	1	79	27.2	2027.	39.9N	105.9W		5	B	40	
0003007	55	CO	25	1	22.9	1747.	39.8N	106.0W		5	B	40	
0004001	55	MT	5	1	4.7	339.	45.2N	109.2W	1524	0	D	22	
0005001	61	MT	19	1	9.6	775.	46.7N	109.3W	2606	3	C	58	
0005002	61	MT	19	2	8.7	703.	46.7N	109.3W	2606	3	C	58	
0006002	48	MN	56	4	2.9		46.6N	96.1W		12	D	23	587
0006003	48	MN	4	1	3.8		47.5N	96.5W		12	D	23	587
0006004	48	MN	4	2	3.3		47.5N	96.5W		12	D	23	587
0006005	48	MN	4	3	3.1		47.5N	96.5W		12	D	23	587
0006006	48	MN	31	1	3.8		47.7N	94.5W		12	D	23	524
0006007	49	WA	31	1	12.7		48.2N	122.1W	0091	12	E	22	583
0006008	49	WA	31	2	9.4		47.9N	122.0W	0122	12	E	22	583
0006009	49	WA	17	1	16.8		47.5N	121.8W	0244	12	E	22	583
0006010	49	WA	17	2	86.4		47.5N	121.8W	0488	12	E	22	583
0006011	49	WA	17	3	12.7		47.7N	122.0W	0152	12	E	22	583
0006012	49	WA	17	4	11.8		47.3N	122.2W	0169	12	E	22	583
0006013	49	MT	24	1	6.5		47.3N	114.2W	0884	12	D	22	587
0006014	49	MT	24	2	8.6		47.5N	114.1W	0884	12	D	22	583

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER				CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0006015	49	MT	18	1	5.7	48.6N	113.0W	1737	12	D 22 587
0006016	49	MT	18	2	7.5	48.6N	113.0W	1859	12	D 22 587
0006017	49	MT	18	3	12.2	48.6N	113.0W	1798	12	D 22 587
0006018	49	MT	15	1	5.1	48.6N	114.6W	1036	12	D 22 587
0006019	49	MT	15	2	4.3	48.6N	114.6W	0975	12	D 22 587
0006020	49	MT	15	3	9.3	48.4N	114.4W	0975	12	D 22 587
0006021	49	MT	15	4	6.3	48.4N	114.4W	0963	12	D 22 587
0006022	49	ID	9	1	5.7	48.2N	116.8W	0823	12	7 22 583
0006023	49	ID	9	2	4.8	48.4N	116.5W	0792	12	7 22 583
0006024	49	AL	1	1	5.6	51.3N	116.0W	1730	12	K 22 587
0006025	49	AT	2	1	5.5	53.0N	114.5W	0853	12	C 23 587
0006026	49	AT	3	1	4.9	53.2N	113.9W	0884	12	C 23 587
0006027	49	MN	38	1	20.3	47.4N	91.2W	0350	12	D 23 583
0006029	49	WI	16	1	4.4	46.4N	91.8W	0350	12	D 22 595
0006030	49	WI	26	1	14.0	46.4N	90.4W	0350	12	D 23 580
0006031	49	WI	4	1	4.5	46.8N	91.4W	0350	12	D 23 597
0006032	49	WI	4	2	4.3	46.8N	91.4W	0350	12	D 23 595
0006033	49	WI	4	3	6.7	46.6N	91.4W	0350	12	D 23 583
0006034	49	MI	27	1	10.5	46.6N	89.9W	0350	12	D 23 596
0006035	48	MN	60	1	8.0	47.7N	96.0W	0350	12	D 23 583
0006036	48	MN	56	2	12.5	46.2N	95.9W	0350	0	D 23 587
0006037	48	MI	66	4	5.5	46.7N	89.2W	0350	12	D 22
0006038	48	ME	9	4	14.3	44.9N	71.0W	0350	12	D 22 583
0006039	48	NH	4	4	10.2	45.1N	71.4W	0100	12	7 22 583
0006040	40	MD			4.7	39.6N	79.0W	0457	12	D 23
0006041	41	MD			22.9	39.0N	79.4W	0457	12	D 22
0006042	42	NH			10.2	42.9N	71.7W	0100	12	8 23 583
0006043	48	CT	7	3	9.4	41.9N	72.3W	0100	12	D 23 583
0006044	48	CT	7	4	17.9	41.9N	72.3W	0100	12	D 23 583
0006045	50	WA	20	1	5.7	45.8N	120.8W	0762	12	E 22 400
0006046	50	WA	20	2	5.3	45.8N	120.9W	0792	12	E 22 400
0006047	50	WA	19	1	11.4	47.2N	120.9W	0686	12	E 22 581
0006048	50	WA	19	2	6.2	47.2N	120.9W	0732	12	E 22 580
0006049	50	WA	21	1	16.0	46.5N	122.9W	0183	12	E 22 583
0006050	50	WA	21	2	8.0	46.4N	122.9W	0198	12	E 22 583
0006051	50	WA	21	3	16.4	46.5N	122.9W	0152	12	C 40 583
0006052	50	WA	21	4	21.9	46.4N	122.9W	0091	12	C 40 583
0006053	50	WA	21	5	7.5	46.5N	122.9W	0213	12	E 22 510
0006054	50	WA	21	6	16.3	46.7N	123.0W	0122	12	E 22 510
0006055	50	WA	23	1	10.1	47.2N	123.1W	0076	12	E 22 583
0006056	50	WA	23	2	10.9	47.4N	122.8W	0061	12	E 22
0006057	50	WA	23	3	13.9	47.2N	123.1W	0122	12	E 22 583
0006058	50	WA	23	4	26.9	47.2N	123.1W	0131	12	E 22 583
0006059	50	WA	5	1	4.5	48.1N	123.1W	0061	12	E 22 583
0006060	50	WA	5	2	5.0	48.1N	123.1W	0137	12	E 22 583
0006061	50	WA	15	1	4.2	48.0N	122.4W	0152	12	E 22 583
0006062	50	WA	15	2	4.0	48.0N	122.4W	0134	12	E 22 583
0006063	50	NV	3	1	7.4	38.9N	119.7W	2377	12	C 40 586
0006064	50	NV	3	2	5.1	38.9N	119.7W	1920	12	C 40 586
0006065	50	CT	2	10	14.8	44.9N	72.8W	0100	12	D 25 583

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER				CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
0006066	50	CT	2 11	6.7		44.9N	72.8W	0100	12	D 25	583	
0006067	50	MA	7 1	9.7		42.2N	72.6W	100.	12	D 25	583	
0006068	50	NJ	7 1	5.0		40.9N	74.2W	0100	12	D 25	583	
0007001		70ID		11.8		43.8N	115.8W	1524	35	7 22		
0007002		71ID		6.5		43.8N	115.8W	1371	35	7 22		
0007003		88ID		7.3		44.5N	116.0W	1585	35	7 22		
0007004		77ID		12.4		44.5N	116.0W	1463	35	7 22		
0007005		90ID		21.1		44.9N	116.1W	1554	35	7 22		
0007006		91ID		18.0		44.9N	116.1W	1532	35	7 22		
0007007		1UT		30.4		41.0N	111.9W	2164	35	D 25		
0007008		2UT		17.2		41.0N	111.9W	2560	35	B 40		
0007009		3UT		33.1		41.0N	111.9W	2118	35	D 25		
0007010		95UT		35.5		41.0N	111.9W	2316	35	D 25		
0007011		45ID		10.2		43.2N	112.4W	1387	35	B 40		
0007012		46ID		8.2		43.2N	112.4W	1387	35	B 40		
0007013		44ID		5.7		43.2N	112.4W	1384	35	B 40		
0007014		67ID		8.9		43.1N	115.7W	0975	35	B 40		
0007015		75ID		8.6		43.6N	116.2W	0869	35	B 40		
0007016		26ID		16.4		42.7N	111.5W	1890	35	B 40		
0007017		25ID		25.7		42.7N	111.5W	1890	35	B 40		
0007018		37ID		7.5		43.0N	112.8W	1344	35	B 40		
0007019		76ID		11.5		43.6N	116.2W	0864	35	B 40		
0007020		41ID		5.6		43.1N	112.7W	1326	35	B 40		
0007021		43ID		5.4		43.2N	112.4W	1387	35	B 40		
0007022		61ID		11.6		42.9N	114.7W	1082	35	B 40		
0007023		62ID		3.5		42.9N	114.7W	1097	35	B 40		
0007024		86ID		15.4		42.5N	113.8W	1250	35	B 40		
0007025		65ID		7.6		42.9N	115.0W	0945	35	B 40		
0007026		32ID		8.7		42.9N	112.5W	1372	35	B 40		
0007027		35ID		7.5		42.9N	112.5W	1366	35	B 40		
0007028		50ID		6.4		43.5N	112.0W	1442	35	B 40		
0007029		52ID		10.2		43.4N	112.8W	1509	35	B 40		
0007030		53ID		8.1		43.4N	112.8W	1509	35	B 40		
0007031		64ID		6.3		42.9N	115.0W	0994	35	B 40		
0007032		66ID		5.6		42.8N	115.0W	1024	35	B 40		
0007033		82ID		14.3		42.6N	114.1W	1238	35	B 40		
0007034		29ID		7.4		42.7N	111.9W	1664	35	B 40		
0007035		72ID		16.7		43.6N	115.9W	1189	35	B 40		
0007036		27ID		17.8		42.7N	111.5W	1890	35	B 40		
0007037		54ID		10.7		43.6N	113.3W	1628	35	B 40		
0007038		57ID		5.4		43.6N	113.3W	1631	35	B 40		
0007039		69ID		9.8		43.1N	115.7W	0966	35	B 40		
0007040		74ID		16.3		43.6N	116.2W	0808	35	B 40		
0007041		92ID		17.9		42.1N	113.3W	1555	35	B 40		
0007042		93ID		20.1		42.1N	113.3W	1555	35	B 40		
0007043		59ID		10.9		43.5N	114.3W	1631	35	B 40		
0007044		132NV		7.9		39.2N	114.9W	1954	35	C 40		
0007045		133NV		31.8		39.2N	114.9W	1946	35	C 40		
0007046		134NV		7.4		39.2N	114.9W	1950	35	C 40		
0007047		135NV		4.5		41.1N	115.0W	1745	35	C 40		

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON NITROGEN		LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2	G/M**2			M		A	B	C
0007048	136NV	7.5	41.1N	115.0W	1722	35	C	40	
0007049	137NV	12.5	41.1N	115.0W	1718	35	C	40	
0007050	138NV	5.6	41.2N	114.6W	2118	35	C	40	
0007051	139NV	31.7	41.2N	114.6W	2073	35	C	40	
0007052	140NV	10.5	41.2N	114.6W	2012	35	C	40	
0007053	121UT	8.6	37.7N	113.1W	1753	35	B	40	
0007054	125UT	4.3	38.4N	113.0W	1570	35	B	40	
0007055	115UT	7.3	37.6N	113.7W	1646	35	B	40	
0007056	102UT	8.1	38.8N	112.1W	1620	35	B	40	
0007057	141UT	10.3	40.7N	114.0W	1292	35	A	52	
0007058	142UT	9.3	40.7N	114.0W	1292	35	A	52	
0007059	144UT	9.0	40.7N	113.3W	1292	35	A	52	
0007060	117UT	8.9	37.6N	113.7W	1652	35	B	40	
0007061	114UT	1.8	37.1N	113.6W	0872	35	B	40	
0007062	97UT	18.1	39.4N	111.6W	1700	35	B	40	
0007063	118UT	13.5	37.9N	113.7W	1646	35	B	40	
0007064	119UT	10.5	37.9N	113.7W	1637	35	B	40	
0007065	120UT	16.1	37.7N	113.1W	1707	35	B	40	
0007066	129UT	7.6	38.9N	114.0W	1615	35	B	40	
0007067	131UT	6.6	38.9N	114.0W	1594	35	B	40	
0007068	128UT	10.3	38.9N	114.0W	1826	35	A	50	
0007069	127UT	3.0	38.9N	114.0W	1829	35	B	40	
0007070	124UT	22.0	38.4N	113.0W	1514	35	B	40	
0007071	4UT	19.0	41.0N	111.9W	2317	35	B	40	
0007072	94UT	22.5	39.4N	111.6W	3005	35	B	40	
0007073	96UT	21.2	39.4N	111.6W	2590	35	B	40	
0008001	60 NV	3	1	1.7	88.	39.0N	119.8W	7	C 40
0008002	59 NV	3	3	2.6	282.	39.0N	119.8W	7	C 40
0008003	59 NV	3	4	3.2	334.	39.0N	119.8W	7	C 40
0008004	59 NV	3	9	3.2	247.	39.0N	119.8W	7	C 40
0008005	59 NV	3	1	5.0	261.	39.0N	119.8W	7	C 40
0008006	59 NV	2	9	0.6	25.	36.0N	115.0W	1219	7 C 40
0008007	59 NV	2	10	1.5	30.	36.0N	115.0W	1219	7 C 40
0008008	66 NV	4	5	3.8	45.	41.0N	116.5W	1554	7 C 40
0008009	66 NV	7	1	2.9	159.	40.8N	118.0W	1359	7 C 40
0008010	66 NV	7	2	2.4	114.	40.8N	118.0W	1335	7 C 40
0008011	66 NV	9	21	3.5	55.	40.8N	118.0W	1471	7 C 40
0008012	66 NV	14	3	3.3	173.	40.8N	118.0W	1347	7 C 40
0008013	66 NV	14	4	3.2	180.	40.8N	118.0W	1359	7 C 40
0008014	66 NV	14	2	2.9	198.	40.7N	118.0W	1414	7 C 40
0008015	66 NV	9	24	3.4	104.	37.5N	115.3W	1859	7 C 40
0008016	66 NV	9	20	4.5	200.	37.5N	115.3W	1576	7 C 40
0008017	56 NV	2	8	4.5	89.	36.0N	115.0W	0457	7 C 40
0008018	59 NV	2	14	1.1	37.	36.0N	115.0W		7 B 52
0008019	66 NV	7	3	2.2	49.	41.0N	116.5W	1323	7 C 40
0008020	66 NV	4	3	6.8	298.	41.0N	116.5W	1768	7 C 40
0008021	66 NV	4	1	5.1	239.	41.0N	116.5W	1753	7 C 40
0008022	66 NV	9	22	4.7	144.	38.0N	114.2W	1889	7 C 40
0008023	66 NV	9	25	4.4	294.	38.0N	114.2W	1829	7 C 40
0008024	66 NV	4	4	6.0	171.	41.0N	116.5W	1798	7 C 40

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER			CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0009001	61 WY 15	1	11.4	885.	44.9N	109.6W	3211	4	C 40
0009002	61 WY 15	2	9.9	762.	44.9N	109.6W	3211	4	C 40
0010001	341 CA		0.4	46.	41.3N	122.1W	1158	44	D 22
0010002	342 CA		4.8	302.	41.3N	122.1W	1158	44	D 22
0010003	343 CA		7.1	416.	41.3N	122.1W	1158	44	D 22
0010004	344 CA		8.9	490.	41.3N	122.1W	1158	44	D 22
0010005	345 CA		8.7	490.	41.3N	122.1W	1158	44	D 22
0011001	471 CA		0.0	245.	36.6N	123.0W	0152	45	D 27
0011002	472 CA		0.0	1354.	36.6N	123.0W	0152	45	D 27
0011003	473 CA		0.0	835.	36.6N	123.0W	0152	45	D 27
0011004	474 CA		0.0	811.	36.6N	123.0W	0152	45	D 27
0011005	475 CA		0.0	240.	36.6N	123.0W	0152	45	D 27
0011006	476 CA		0.0	154.	36.6N	123.0W	0152	45	D 27
0011007	477 CA		0.0	180.	36.6N	123.0W	0152	45	D 27
0011008	478 CA		0.0	114.	36.6N	123.0W	0152	45	D 27
0011009	479 CA		0.0	218.	36.6N	123.0W	0152	45	D 27
0011010	480 CA		0.0	162.	36.6N	123.0W	0152	45	D 27
0011011	481 CA		0.0	722.	36.6N	123.0W	0152	45	D 27
0011012	482 CA		0.0	499.	36.6N	123.0W	0152	45	D 27
0011013	483 CA		0.0	618.	36.6N	123.0W	0152	45	D 27
0011014	484 CA		0.0	410.	36.6N	123.0W	0152	45	D 27
0012001	68 CA 9 27		6.2	147.	39.1N	120.1W	1950	46	D 22
0012002	68 CA 9 28		6.2	126.	39.1N	120.1W	1950	46	D 22
0012003	68 CA 9 21		6.0	106.	39.1N	120.1W	1950	46	D 22
0012006	68 CA 9 26		6.0	144.	39.1N	120.1W	1950	46	D 22
0012007	68 CA 9 29		6.8	249.	39.1N	120.1W	1950	46	D 22
0012008	68 CA 9 30		7.7	122.	39.1N	120.1W	1950	46	D 22
0012011	68 CA 9 22		6.0	115.	39.1N	120.1W	1950	46	D 22
0012012	68 CA 9 14		10.8	446.	39.1N	120.1W	1950	46	D 22
0012013	68 CA 9 16		25.4	1273.	39.1N	120.1W	1950	46	D 22
0012014	68 CA 9 15		16.4	824.	39.1N	120.1W	1950	46	D 22
0012015	68 CA 9 20		5.8	131.	39.1N	120.1W	1950	46	D 22
0012016	68 CA 9 23		4.8	136.	39.1N	120.1W	1950	46	D 22
0012017	68 CA 31 1		7.6	243.	39.1N	120.1W	1950	46	D 22
0012018	68 CA 31 2		14.8	334.	39.1N	120.1W	1950	46	D 22
0012019	67 CA 9 17		4.6	144.	39.1N	120.1W	1950	46	D 22
0012020	68 NV 3 1		6.0	433.	39.1N	120.1W	1950	46	D 22
0012021	68 CA 9 31		4.2	111.	39.1N	120.1W	1950	46	D 22
0013001	600OR		12.1	508.	42.9N	122.2W	1829	43	D 22
0013002	601OR		9.8	492.	42.9N	122.2W	1829	43	D 22
0013003	602OR		6.2	231.	42.9N	122.2W	1829	43	D 22
0013004	603OR		7.0	228.	42.9N	122.2W	1829	43	D 22
0013005	604OR		7.0	226.	42.9N	122.2W	1829	43	D 22
0013006	605OR		12.3	582.	42.9N	122.2W	1829	43	D 22
0013007	606OR		3.9	141.	42.9N	122.2W	1829	43	D 22
0013008	607OR		3.7	143.	42.9N	122.2W	1829	43	D 22
0013009	608OR		5.6	219.	42.9N	122.2W	1829	43	D 22
0014001	10SC		12.7		34.9N	84.4W	0091	9	K 26
0014002	11NC		7.1		35.8N	78.6W	0091	9	D 24
0014003	12NC		10.9		35.7N	78.8W	0091	9	D 24

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0014004	20NC	9.0		35.8N	78.8W	0091	9	D 24
0014005	21NC	9.8		35.8N	78.8W	0091	9	K 27
0014006	22NC	3.8		36.1N	79.8W	0091	9	K 26
0014007	51MS	11.0		34.8N	90.0W	0091	9	K 26
0014008	54KY	9.6		36.6N	88.3W	0091	9	K 26
0014009	55KY	9.3		36.6N	88.3W	0091	9	K 26
0014010	76MS	7.7		30.7N	88.5W	0091	9	K 26
0014011	77MS	6.9		30.7N	88.5W	0091	9	J 24
0014012	78MS	7.4		31.2N	88.5W	0091	9	J 24
0014013	90FL	6.1		30.8N	86.6W	0091	9	K 27
0014014	91FL	6.0		30.8N	86.6W	0091	9	K 27
0014015	92FL	3.7		30.8N	86.6W	0091	9	K 27
0014016	94MS	13.8		30.7N	89.6W	0091	9	J 24
0014017	95MS	5.1		30.7N	89.6W	0091	9	K 27
0014018	108MS	6.5		32.3N	89.0W	0091	9	K 27
0014019	109MS	6.6		30.6N	89.1W	0091	9	K 27
0016001	CX523.51 CT	6.4	291.	41.6N	72.1W	0075	14	E 25
0016002	CX523.52 CT	6.3	296.	41.6N	72.1W	0075	14	E 25
0016003	CX523.87 CT	15.6	647.	41.6N	72.1W	0075	14	E 25
0016004	CX523.50 CT	9.3	474.	41.3N	73.0W	0150	14	E 25
0016005	CX523.53 CT	12.1	582.	41.6N	72.6W	0075	14	E 25
0016006	CX523.64 CT	21.8	1228.	41.9N	71.9W	0075	14	E 25
0016007	CX523.73 CT	13.9	581.	41.8N	72.7W	0075	14	E 25
0016008	CX523.81 CT	12.7	565.	41.6N	72.6W	0075	14	E 25
0016009	CX523.86 CT	13.4	771.	41.8N	72.1W	0075	14	E 25
0016010	CX523.54 CT	9.2	710.	41.5N	73.0W	0100	14	E 25
0016011	CX523.63 CT	10.1	463.	41.8N	73.2W	0075	14	E 25
0016012	CX523.75 CT	14.3	763.	41.6N	72.6W	0075	14	E 22
0018004	254 CA	4.4	201.	41.6N	124.2W	0020	26	D 22
0018005	255 CA	2.7	159.	41.6N	124.2W	0020	26	D 22
0018006	256 CA	3.2	166.	41.6N	124.2W	0020	26	D 22
0018007	257 CA	3.9	217.	41.6N	124.2W	0020	26	D 22
0018008	258 CA	2.8	121.	41.6N	124.2W	0020	26	D 22
0018009	259 CA	4.1	179.	41.6N	124.2W	0020	26	D 22
0018010	260 CA	6.9	225.	41.6N	124.2W	0020	26	D 22
0018011	261 CA	22.4	1259.	41.6N	124.2W	0020	26	D 22
0018012	262 CA	25.8	1609.	41.6N	124.2W	0020	26	D 22
0018013	263 CA	20.7	943.	41.6N	124.2W	0020	26	D 22
0018016	266 CA	8.8	341.	39.5N	123.8W	0020	26	D 22
0018017	267 CA	9.3	433.	39.5N	123.8W	0020	26	D 22
0018018	268 CA	2.6	65.	41.6N	124.2W	0020	26	D 22
0018019	269 CA	4.3	133.	41.6N	124.2W	0020	26	D 22
0018020	270 CA	2.8	152.	41.6N	124.2W	0020	26	D 22
0018021	271 CA	13.1	611.	41.6N	124.2W	0020	26	D 22
0018022	272 CA	5.1	236.	41.6N	124.2W	0020	26	D 22
0018023	273 CA	3.9	141.	41.6N	124.2W	0020	26	D 22
0018024	274 CA	2.9	318.	41.6N	124.2W	0020	26	D 22
0018025	275 CA	4.5	302.	41.6N	124.2W	0020	26	D 22
0018026	276 CA	22.5	1077.	41.6N	124.2W	0020	26	D 22
0018027	277 CA	3.4	263.	41.6N	124.2W	0020	26	D 22

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
0018028 278 CA	2.4	176.	41.6N	124.2W	0020	26	D	22	
0018031 281 CA	18.1	1535.	39.3N	123.8W	0020	26	D	22	
0019001 350 CA	10.0	515.	41.6N	121.1W	1900	26	D	22	
0019002 351 CA	11.7	476.	41.6N	121.1W	1900	26	D	22	
0019003 352 CA	7.8	469.	41.6N	121.1W	1900	26	D	22	
0019004 353 CA	9.2	594.	41.6N	121.1W	1900	26	D	22	
0019005 354 CA	6.9	391.	41.6N	121.1W	1900	26	D	22	
0019007 356 CA	6.2	281.	41.6N	121.1W	1900	26	C	40	
0019008 357 CA	4.6	313.	41.6N	121.1W	1900	26	C	40	
0019009 358 CA	11.1	812.	41.6N	121.1W	1900	26	C	40	
0019010 359 CA	5.5	400.	41.6N	121.1W	1900	26	C	40	
0019011 360 CA	41.2	1942.	41.6N	121.6W	2709	26	D	22	
0019012 362 CA	24.3	648.	43.2N	122.2W	2322	26	D	22	
0019013 361 CA	19.9	725.	41.6N	121.6W	2709	26	D	22	
0020001 408 MX	12.8	1102.	19.5N	96.9W	1600	26	D	24	
0020002 409 MX	18.6	1351.	19.6N	97.0W	1800	26	D	24	
0020005 410 MX	47.0	3518.	19.6N	97.0W	2200	26	D	24	
0020006 411 MX	22.1	1168.	19.4N	96.4W	0010	26	I	31	
0020007 412 MX	44.6	314.	19.4N	96.4W	0010	26	I	31	
0020008 413 MX	14.7	1197.	19.7N	96.5W	0300	26	I	31	
0020009 414 MX	5.6	475.	19.5N	96.8W	1000	26	I	31	
0020010 415 MX	15.0	597.	19.6N	97.1W	2200	26	D	22	
0020012 417 MX	1.8	151.	19.3N	96.7W	0500	26	C	22	
0020014 418 MX	5.0	291.	19.5N	97.3W	1600	26	D	24	
0020015 419 MX	11.1	933.	19.4N	97.2W	3800	26	D	22	
0020016 420 MX	4.1	207.	19.5N	97.2W	2800	26	D	22	
0020018 422 MX	0.0		19.4N	96.5W	0200	26	D	22	
0020019 423 MX	0.0		19.4N	96.6W	0300	26		45	
0021003 435 FL	33.3	314.	25.9N	81.7W	0010	32		45	
0022001 440CA	18.9	829.	38.9N	120.6W	1281	26	D	22	
0022002 441ACA	18.5	807.	38.9N	120.6W	1281	26	D	22	
0022003 441BCA	15.8	738.	38.9N	120.6W	1281	26	D	22	
0022004 441CCA	21.8	940.	38.9N	120.6W	1281	26	D	22	
0022005 442CA	21.4	709.	38.9N	120.6W	1281	26	D	22	
0022006 443CA	20.3	804.	38.9N	120.6W	1281	26	D	22	
0022007 444ACA	18.2	699.	38.9N	120.6W	1281	26	D	22	
0022008 444BCA	18.6	774.	38.9N	120.6W	1281	26	D	22	
0022009 445CA	15.8	661.	38.9N	120.6W	1281	26	D	22	
0022010 446ACA	22.1	871.	38.9N	120.6W	1281	26	D	22	
0022011 446BCA	42.8	2210.	38.9N	120.6W	1281	26	D	22	
0022012 447CA	19.2	814.	38.9N	120.6W	1281	26	D	22	
0022014 449CA	15.4	658.	38.9N	120.6W	1281	26	D	22	
0022015 450CA	16.4	579.	38.9N	120.6W	1281	26	D	22	
0023001 451CA	10.7	672.	39.9N	121.1W	1180	26	D	22	
0023002 452CA	11.4	498.	39.9N	121.1W	1262	26	D	22	
0023003 453CA	2.4	166.	39.9N	121.1W	1146	26	D	22	
0023004 454CA	6.7	249.	39.9N	121.1W	1158	26	D	22	
0023005 455CA	32.4	1877.	39.9N	121.1W	1158	26	C	40	
0023006 456CA	6.9	350.	39.9N	121.1W	1250	26	D	22	
0023007 457 CA	5.6	255.	39.9N	121.1W	1219	26	D	22	

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON		LATITUDE	LONGITUDE	ELEV.	SOURCE CATEGORY		
	KG/M**2	G/M**2				M	A	B C
0024001 459 OR	10.9	833.	45.7N	121.5W	0027	26	I	30
0024002 460 OR	6.9	579.	45.7N	121.5W	0027	26	I	30
0024005 463 OR	9.3	953.	45.7N	121.5W	0027	26	I	30
0025001 489NCA	20.2	1728.	37.9N	122.2W	0305	11		27
0025002 489SCA	18.3	1651.	37.9N	122.2W	0305	11		27
0025003 489ECA	19.7	1795.	37.9N	122.2W	0305	11		27
0025004 489WCA	20.2	1774.	37.9N	122.2W	0305	11		27
0025005 490NCA	18.2	1525.	37.9N	122.2W	0305	11		27
0025006 490SCA	20.1	1704.	37.9N	122.2W	0305	11		27
0025007 490ECA	21.1	1780.	37.9N	122.2W	0305	11		27
0025008 490WCA	19.1	1504.	37.9N	122.2W	0305	11		27
0025009 491NCA	14.5	1133.	37.9N	122.2W	0305	11		27
0025010 491SCA	16.8	1306.	37.9N	122.2W	0305	11		27
0025011 491ECA	16.2	1316.	37.9N	122.2W	0305	11		27
0025012 491WCA	17.5	1355.	37.9N	122.2W	0305	11		27
0025013 492NCA	27.4	1923.	37.9N	122.2W	0305	11		27
0025014 492SCA	27.6	1922.	37.9N	122.2W	0305	11		27
0025015 492ECA	26.0	1841.	37.9N	122.2W	0305	11		27
0025016 492WCA	26.7	1937.	37.9N	122.2W	0305	11		27
0031001 520 CA	12.6	564.	39.9N	121.1W	2085	10	D	22
0031002 520ACA	15.6	701.	39.9N	121.1W	2085	10	D	22
0031003 521 CA	11.0	363.	39.9N	121.1W	2085	10	D	22
0031004 523NCA	17.2	772.	39.9N	121.1W	2085	10	D	22
0031005 523ECA	16.0	583.	39.9N	121.1W	2085	10	D	22
0031006 523SCA	15.4	514.	39.9N	121.1W	2085	10	D	22
0031007 523WCA	15.0	604.	39.9N	121.1W	2085	10	D	22
0033001 551 WA	15.0	984.	45.6N	122.5W	0046	26	E	22
0033002 552 WA	20.6	1288.	45.6N	122.0W	0091	26	E	22
0033003 553 WA	13.7	693.	45.7N	121.6W	0091	26	E	22
0033004 554 WA	13.2	605.	45.7N	121.5W	0152	26	E	22
0033005 555 WA	12.9	655.	45.7N	121.8W	0061	26	E	22
0033006 556 OR	11.0	2510.	45.7N	121.3W	0091	26	D	22
0033007 557 OR	17.6	1034.	45.7N	121.5W	0091	26	D	22
0033008 558 OR	10.6	505.	45.6N	122.0W	0046	26	D	22
0033009 560 OR	11.1	414.	45.6N	122.8W	0122	26	D	22
0034001 700 CA	20.6	368.	41.9N	124.0W	0792	26	D	22
0034002 704 CA	7.6	246.	41.9N	124.0W	0792	26	D	22
0034003 705 CA	11.9	513.	41.9N	123.9W	0792	26	D	22
0034004 706 CA	6.3	385.	41.9N	123.9W	0792	26	D	22
0034005 706A CA	9.1	552.	41.9N	124.0W	0792	26	D	22
0034007 707 CA	29.7	1385.	41.8N	124.0W	0792	26	D	22
0034008 709 CA	8.4	594.	41.9N	124.0W	0792	26	D	22
0035001 1 CA	8.9	380.	39.1N	122.6W	0775	26	D	27
0035002 2 CA	17.3	830.	37.1N	122.0W	0300	26	D	27
0035003 3 CA	13.4	704.	38.3N	121.0W	0195	26	D	27
0035004 4 CA	14.5	231.	39.4N	119.7W	1900	26	J	47
0035005 5 CA	21.0	1234.	34.2N	117.6W	1550	26	D	27
0035006 6 CA	11.1	492.	40.5N	121.6W	1900	26	D	22
0035007 7 CA	8.6	361.	40.5N	121.6W	1900	26	D	22
0035008 8 CA	6.7	351.	40.5N	121.6W	1900	26	D	22

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0035009	9 CA	12.1	484.	41.0N	121.6W	1350	26	D 22
0035010	10 CA	12.7	579.	41.0N	121.6W	1350	26	D 22
0035011	11 CA	10.8	611.	41.0N	121.6W	1350	26	D 22
0035012	12 CA	10.6	540.	41.5N	121.0W	1900	26	D 27
0035013	13 CA	16.5	789.	41.5N	121.0W	1900	26	D 27
0035014	14 CA	11.2	492.	40.4N	120.6W	1740	26	D 27
0035015	15 CA	6.4	272.	40.4N	120.7W	1935	26	D 22
0035016	16 CA	16.0	685.	40.3N	121.2W	1900	26	D 22
0035017	17 CA	13.3	365.	40.3N	121.2W	1900	26	D 22
0035018	18 CA	20.6	904.	40.4N	121.5W	1950	26	D 22
0035019	19 CA	29.5	1208.	40.4N	121.5W	1950	26	D 22
0035020	20 CA	28.7	1368.	40.1N	121.4W	2320	26	D 22
0035021	21 CA	8.5	559.	39.8N	120.4W	1857	26	D 22
0035022	22 CA	9.9	499.	37.8N	119.8W	2100	26	D 22
0035023	23 CA	14.5	522.	37.8N	119.8W	2100	26	D 22
0035024	24 CA	14.1	634.	37.8N	119.8W	2100	26	D 22
0035025	25 CA	14.6	651.	37.8N	119.8W	2100	26	D 22
0035026	26 CA	13.3	638.	37.7N	119.7W	1950	26	D 22
0035027	27 CA	13.2	623.	37.7N	119.7W	1950	26	D 22
0035028	28 CA	13.5	743.	37.6N	119.8W	1500	26	D 22
0035029	29 CA	17.6	769.	37.5N	119.7W	1500	26	D 22
0035030	30 CA	9.1	411.	39.9N	123.7W	1085	26	D 22
0035031	31 CA	10.6	410.	39.9N	123.7W	1085	26	D 22
0035032	31ACA	13.5	400.	39.9N	123.7W	1085	26	D 22
0035033	31BCA	9.8	468.	39.9N	123.7W	1085	26	D 22
0035034	31CCA	10.8	424.	39.9N	123.7W	1085	26	D 22
0035035	31DCA	3.7	183.	39.9N	123.7W	1085	26	D 22
0035036	32 CA	6.9	315.	39.9N	123.7W	1550	26	D 22
0035037	33 CA	9.4	381.	39.9N	123.7W	1550	26	D 22
0035038	34 CA	11.5	665.	40.1N	124.0W	0380	26	D 27
0035039	35 CA	10.8	588.	40.1N	124.0W	1083	26	D 27
0035040	36 CA	13.8	852.	39.9N	123.2W	1550	26	D 27
0035041	37 CA	10.6	399.	39.9N	123.2W	1550	26	D 27
0035042	38 CA	11.3	534.	39.9N	123.2W	1550	26	D 27
0035043	39 CA	9.2	485.	39.7N	123.2W	1625	26	D 27
0035044	40 CA	11.1	539.	39.7N	123.2W	1550	26	D 22
0035045	41 CA	8.3	298.	38.0N	122.9W	0200	26	D 27
0035046	42 CA	17.2	794.	37.9N	119.9W	1500	26	D 22
0035047	43 CA	12.6	622.	37.9N	119.9W	1500	26	D 22
0035048	44 CA	12.7	650.	37.9N	119.9W	1500	26	D 22
0035049	45 CA	10.4	358.	34.2N	117.2W	1935	26	D 22
0035050	46 CA	11.6	377.	34.2N	117.2W	1935	26	D 22
0035051	47 CA	15.6	477.	34.2N	117.0W	2709	26	D 22
0035052	48 CA	10.5	492.	33.1N	115.7W	1161	26	D 27
0035053	49 CA	18.5	835.	38.8N	122.7W	1150	26	D 27
0035054	50 CA	16.8	733.	38.8N	122.7W	1150	26	D 27
0035055	51 OR	13.4	643.	42.1N	123.5W	1125	26	D 22
0035056	52 OR	11.4	592.	42.1N	123.5W	1125	26	D 22
0035057	81 SD	5.9	234.	44.1N	103.9W	2322	26	D 27
0037001	53 CA	21.8	984.	37.5N	119.3W	1940	26	D 22

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0037002	91 CA	2.0	110.	34.3N	117.6W	3900	26	D 22
0038001	61 CA	3.3	233.	37.6N	120.1W	0970	26	I 46
0038002	62 CA	2.4	238.	37.6N	120.1W	0970	26	I 46
0038003	63 CA	3.8	251.	39.0N	123.0W	0770	26	I 46
0038004	64ACA	3.1	193.	39.0N	123.0W	0770	26	I 46
0038005	65 CA	2.7	190.	34.1N	118.3W	0270	26	I 46
0038006	965 CA	5.7	353.	39.0N	123.0W	0770	26	I 46
0038007	66 CA	3.2	247.	34.1N	118.3W	0270	26	I 46
0038008	67 CA	4.3	247.	34.2N	118.2W	0775	26	I 46
0038009	68 CA	3.3	238.	34.2N	118.2W	0775	26	I 46
0038010	69 CA	2.3	172.	33.1N	116.5W	1161	26	I 46
0038011	70 CA	8.2	413.	33.1N	116.5W	1161	26	I 46
0038012	71 CA	13.0	766.	32.9N	116.5W	2120	26	I 46
0038013	72 CA	6.3	320.	32.9N	116.5W	2120	26	I 46
0038014	73 CA	6.0	358.	32.9N	116.5W	2120	26	I 46
0038015	74 CA	5.1	246.	32.9N	116.6W	1550	6	I 46
0038016	75 CA	7.8	414.	32.9N	116.6W	1550	26	I 46
0038017	76 CA	4.9	247.	32.9N	116.6W	1550	26	I 46
0038018	77 CA	7.1	415.	33.1N	117.2W	0230	26	I 46
0038019	78 CA	8.7	473.	33.1N	117.2W	0230	26	I 46
0038020	83 CA	7.4	346.	41.0N	122.4W	1548	26	I 46
0038021	84 CA	3.5	179.	40.3N	122.8W	1161	26	I 46
0038022	85 CA	3.8	221.	40.3N	122.8W	1161	26	I 46
0038023	86 CA	2.6	149.	39.6N	122.5W	0380	26	I 46
0038024	87 CA	2.3	109.	39.6N	122.5W	0380	26	I 46
0038025	88 CA	2.8	121.	39.5N	122.7W	1740	26	I 46
0038026	89 CA	4.1	380.	39.5N	122.7W	0967	26	I 46
0038027	90 CA	2.7	168.	39.5N	122.6W	0700	26	I 46
0039001	54-36CA	3.6	313.	34.2N	117.6W	1257	26	I 46
0039002	54-58CA	2.4	232.	34.2N	117.6W	1257	26	I 46
0039003	55-40CA	3.0	257.	34.2N	117.6W	1257	26	I 46
0039004	55-58CA	3.4	242.	34.2N	117.6W	1257	26	I 46
0039007	55-69 CA	1.9	109.	34.2N	117.6W	1257	26	I 46
0039008	55-69 CA	2.3	127.	34.2N	117.6W	1257	26	I 46
0039009	55-69 CA	1.5	92.	34.2N	117.6W	1257	26	I 46
0039010	55-69 CA	2.0	125.	34.2N	117.6W	1257	26	I 46
0039011	55-69 CA	1.5	95.	34.2N	117.6W	1257	26	I 46
0039012	55-75CA	3.9	295.	34.2N	117.6W	1257	26	I 46
0039013	56-40CA	3.6	271.	34.2N	117.6W	1257	26	I 46
0039014	56-58CA	2.8	269.	34.2N	117.6W	1257	26	I 46
0039017	56-69 CA	1.7	113.	34.2N	117.6W	1257	26	I 46
0039018	56-69 CA	1.9	129.	34.2N	117.6W	1257	26	I 46
0039019	56-69 CA	1.7	132.	34.2N	117.6W	1257	26	I 46
0039020	56-69 CA	2.2	189.	34.2N	117.6W	1257	26	I 46
0039021	56-69 CA	1.6	124.	34.2N	117.6W	1257	26	I 46
0039022	56-75CA	6.2	423.	34.2N	117.6W	1257	26	I 46
0039023	57-40CA	3.1	277.	34.2N	117.6W	1257	26	I 46
0039024	57-58CA	3.2	289.	34.2N	117.6W	1257	26	I 46
0039026	58-40CA	3.0	273.	34.2N	117.6W	1257	26	I 46
0039027	58-58CA	3.5	270.	34.2N	117.6W	1257	26	I 46

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
0039028	59-40CA	3.3	293.	34.2N	117.6W	1257	26	I	46
0039029	59-58CA	4.2	267.	34.2N	117.6W	1257	26	I	46
0039032	59-69 CA	2.5	141.	34.2N	117.6W	1257	26	I	46
0039033	59-69 CA	3.2	173.	34.2N	117.6W	1257	26	I	46
0039034	59-69 CA	3.4	158.	34.2N	117.6W	1257	26	I	46
0039035	59-69 CA	5.9	570.	34.2N	117.6W	1257	26	I	46
0039036	59-69 CA	1.6	115.	34.2N	117.6W	1257	26	I	46
0039037	60 CA	2.2	261.	34.2N	117.6W	1257	26	I	46
0039038	64-58CA	4.5	276.	34.2N	117.6W	1257	26	I	46
0039040	64-69CA	2.3	143.	34.2N	117.6W	1257	26	I	46
0039041	79-58CA	4.2	274.	34.2N	117.6W	1257	26	I	46
0039042	79-60CA	0.6	57.	34.2N	117.6W	1257	26	I	46
0039043	79-69CA	1.7	123.	34.2N	117.6W	1257	26	I	46
0039044	80-58CA	5.3	345.	34.2N	117.6W	1257	26	I	46
0039046	80-69CA	2.9	190.	34.2N	117.6W	1257	26	I	46
0043001	95A CA	20.6	621.	41.2N	124.1W	0305	26	E	27
0043002	95B CA	25.7	713.	41.2N	124.1W	0305	26	E	27
0043003	95C CA	7.5	693.	41.2N	124.1W	0305	26	E	27
0043004	95D CA	13.6	468.	41.2N	124.1W	0305	26	E	27
0043005	95E CA	15.6	569.	41.2N	124.1W	0305	26	E	27
0043006	95F CA	15.4	757.	41.2N	124.1W	0305	26	E	27
0043007	95G CA	15.4	656.	41.2N	124.1W	0305	26	E	27
0043008	95H CA	38.5	873.	41.2N	124.1W	0305	26	E	27
0043009	95I CA	9.6	295.	41.2N	124.1W	0305	26	E	27
0043010	95J CA	25.2	1191.	41.2N	124.1W	0305	26	E	27
0043011	95.1ACA	35.6	882.	41.2N	124.1W	0305	26	E	27
0043012	95.1BCA	11.2	486.	41.2N	124.1W	0305	26	E	27
0043013	95.1CCA	8.9	537.	41.2N	124.1W	0305	26	E	27
0043014	95.1DCA	23.9	434.	41.2N	124.1W	0305	26	E	27
0043015	95.1ECA	7.2	317.	41.2N	124.1W	0305	26	E	27
0043016	95.1FCA	18.2	787.	41.2N	124.1W	0305	26	E	27
0043017	95.1GCA	15.0	701.	41.2N	124.1W	0305	26	E	27
0043018	95.1HCA	10.6	580.	41.2N	124.1W	0305	26	E	27
0043019	95.1ICA	20.2	794.	41.2N	124.1W	0305	26	E	27
0043020	95.1JCA	12.8	713.	41.2N	124.1W	0305	26	E	27
0043021	96A CA	9.6	579.	41.2N	124.1W	0305	26	E	27
0043022	96B CA	8.6	499.	41.2N	124.1W	0305	26	E	27
0043023	96C CA	8.8	613.	41.2N	124.1W	0305	26	E	27
0043024	96D CA	8.1	512.	41.2N	124.1W	0305	26	E	27
0043025	96E CA	7.6	539.	41.2N	124.1W	0305	26	E	27
0043026	96F CA	11.3	500.	41.2N	124.1W	0305	26	E	27
0043027	96G CA	13.2	714.	41.2N	124.1W	0305	26	E	27
0043028	96H CA	10.7	539.	41.2N	124.1W	0305	26	E	27
0043029	96I CA	11.8	658.	41.2N	124.1W	0305	26	E	27
0043030	96J CA	12.2	695.	41.2N	124.1W	0305	26	E	27
0043031	96.1ACA	12.6	711.	41.2N	124.1W	0305	26	E	27
0043032	96.1BCA	12.2	709.	41.2N	124.1W	0305	26	E	27
0043033	96.1CCA	15.0	667.	41.2N	124.1W	0305	26	E	27
0043034	96.1DCA	12.0	733.	41.2N	124.1W	0305	26	E	27
0043035	96.1ECA	13.0	772.	41.2N	124.1W	0305	6	E	27

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
0043036	96.1	FCA	12.9	765.	41.2N	124.1W	0305	26	E 27
0043037	96.1	GCA	10.9	691.	41.2N	124.1W	0305	26	E 27
0043038	96.1	HCA	19.6	832.	41.2N	124.1W	0305	26	E 27
0043039	96.1	ICA	16.7	617.	41.2N	124.1W	0305	26	E 27
0043040	96.1	JCA	13.1	572.	41.2N	124.1W	0305	26	E 27
0043041	97A	CA	7.1	469.	41.0N	124.0W	0152	26	E 27
0043042	97B	CA	8.3	497.	41.0N	124.0W	0152	26	E 27
0043043	97C	CA	10.6	438.	41.0N	124.0W	0152	6	E 27
0043044	97D	CA	11.5	434.	41.0N	124.0W	0152	26	E 27
0043045	97E	CA	10.2	459.	41.0N	124.0W	0152	26	E 27
0043046	97F	CA	12.5	504.	41.0N	124.0W	0152	26	E 27
0043047	97G	CA	8.4	383.	41.0N	124.0W	0152	26	E 27
0043048	97H	CA	15.2	768.	41.0N	124.0W	0152	26	E 27
0043049	97I	CA	14.9	662.	41.0N	124.0W	0152	26	D 27
0043050	97J	CA	10.4	562.	41.0N	124.0W	0152	26	E 27
0043051	98A	CA	21.6	908.	41.0N	124.0W	0152	26	E 27
0043052	98B	CA	17.8	881.	41.0N	124.0W	0152	26	E 27
0043053	98C	CA	15.9	884.	41.0N	124.0W	0152	26	E 27
0043054	98D	CA	15.9	908.	41.0N	124.0W	0152	26	E 27
0043055	98 E	CA	17.0	1012.	41.0N	124.0W	0152	26	E 27
0043056	98F	CA	16.9	971.	41.0N	124.0W	0152	26	E 27
0043057	98G	CA	20.7	899.	41.0N	124.0W	0152	26	E 27
0043058	98H	CA	14.0	760.	41.0N	124.0W	0152	26	E 27
0043059	98I	CA	21.4	1114.	41.0N	124.0W	0152	26	E 27
0043060	98J	CA	13.2	550.	41.0N	124.0W	0152	26	E 27
0043061	99A	CA	5.1	411.	40.9N	123.9W	0366	26	E 27
0043062	99B	CA	5.0	331.	40.9N	123.9W	0366	26	E 27
0043063	99C	CA	6.9	465.	40.9N	123.9W	0366	26	E 27
0043064	99D	CA	5.7	350.	40.9N	123.9W	0366	26	E 27
0043065	99E	CA	9.5	392.	40.9N	123.9W	0366	26	E 27
0043066	99F	CA	11.9	649.	40.9N	123.9W	0366	26	E 27
0043067	99G	CA	15.3	547.	40.9N	123.9W	0366	26	E 27
0043068	99H	CA	7.7	474.	40.9N	123.9W	0366	26	E 27
0043069	99I	CA	9.1	445.	40.9N	123.9W	0366	26	E 27
0043070	99J	CA	12.5	464.	40.9N	123.9W	0366	26	E 27
0043071	100A	CA	8.8	583.	40.9N	123.9W	0366	26	E 27
0043072	100B	CA	8.6	616.	40.9N	123.9W	0366	26	E 27
0043073	100C	CA	11.9	609.	40.9N	123.9W	0366	26	E 27
0043074	100D	CA	15.3	724.	40.9N	123.9W	0366	26	E 27
0043075	100E	CA	8.0	701.	40.9N	123.9W	0366	26	E 27
0043076	100F	CA	13.1	558.	40.9N	123.9W	0366	26	E 27
0043077	100G	CA	10.3	590.	40.9N	123.9W	0366	26	E 27
0043078	100H	CA	12.4	685.	40.9N	123.9W	0366	26	E 27
0043079	100I	CA	9.4	629.	40.9N	123.9W	0366	26	E 27
0043080	100J	CA	10.5	372.	40.9N	123.9W	0366	26	E 27
0044001	101	CA	18.2	881.	40.3N	124.0W	0047	26	E 27
0044002	102	CA	14.4	907.	40.3N	124.0W	0053	26	E 27
0044003	103	CA	16.9	1076.	40.3N	123.9W	0053	26	E 27
0044004	104	CA	10.9	569.	40.3N	123.9W	0053	26	E 27
0044005	105	CA	11.4	782.	40.3N	123.9W	0052	26	E 27

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON		LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2	G/M**2					A	B	C
0044006	106	CA	15.5	883.	40.3N	123.9W	0052	26	E 27
0044007	107	CA	14.8	868.	40.3N	123.9W	0050	26	E 27
0044008	108	CA	22.7	1433.	40.4N	123.9W	0049	26	E 27
0044009	109	CA	16.7	960.	40.4N	124.0W	0076	26	E 27
0044010	110	CA	16.5	1137.	40.3N	124.0W	0047	26	E 27
0044011	111	CA	1.9	168.	40.4N	124.0W	0152	26	E 27
0044012	112	CA	4.3	222.	40.4N	124.0W	0152	26	E 27
0044013	113	CA	3.0	149.	40.4N	124.0W	0152	26	E 27
0044014	114	CA	0.3	14.	40.4N	124.0W	0076	26	E 27
0044015	115	CA	4.7	118.	40.4N	124.0W	0076	26	E 27
0044016	116	CA	0.5	54.	40.4N	124.0W	0076	26	E 27
0044017	117	CA	0.6	42.	40.4N	124.0W	0076	26	E 27
0044018	118	CA	3.8	131.	40.4N	124.0W	0076	26	E 27
0044019	119	CA	0.7	52.	40.4N	124.0W	0076	26	E 27
0044020	120	CA	5.6	245.	40.4N	124.0W	0076	26	E 27
0044021	121	CA	8.0	614.	40.4N	124.0W	0078	26	E 27
0044022	122	CA	14.7	960.	40.2N	123.8W	0055	26	E 27
0044023	123	CA	13.5	801.	40.2N	123.8W	0055	26	E 27
0044024	124	CA	9.8	627.	40.4N	124.0W	0046	26	E 27
0044025	131	CA	24.6	1411.	40.5N	124.0W	0076	26	E 27
0045001	101	CA	4.8	338.	40.3N	124.0W	0047	26	E 27
0045002	102	CA	7.1	394.	40.3N	124.0W	0053	26	E 27
0045003	102ACA		2.7	206.	40.3N	124.0W	0053	26	E 27
0045004	108	CA	5.4	464.	40.4N	123.9W	0049	26	E 27
0045005	110	CA	5.1	296.	40.3N	124.0W	0047	26	E 27
0045006	122	CA	13.2	863.	40.2N	123.8W	0055	26	E 27
0045007	123	CA	17.3	827.	40.2N	123.8W	0055	26	E 27
0045008	124	CA	0.0		40.4N	124.0W	0046	26	
0045009	128	CA	13.2	552.	40.3N	124.0W	0047	26	E 27
0045010	130	CA	8.2	363.	40.3N	124.0W	0047	26	E 27
0049001	140	CA	8.6	384.	37.7N	119.6W	1210	26	D 22
0049002	141	CA	8.0	437.	37.7N	119.6W	1210	26	D 22
0049003	142	CA	7.2	322.	37.7N	119.6W	1210	26	D 22
0049004	143	CA	20.0	1390.	37.7N	119.6W	1210	26	D 22
0049005	144	CA	0.0		37.7N	119.6W	1210	26	D 22
0049006	145	CA	2.8	142.	37.7N	119.6W	1210	26	D 22
0049007	146	CA	10.4	731.	37.7N	119.6W	1210	26	C 40
0049008	147	CA	14.3	877.	37.7N	119.6W	1210	26	D 22
0049009	148	CA	15.5	886.	37.7N	119.6W	1210	26	C 40
0049010	149	CA	11.3	491.	37.7N	119.6W	1210	26	D 22
0049011	149ACA		1.4	64.	37.7N	119.6W	1210	26	D 22
0049012	150	CA	12.1	464.	37.7N	119.6W	1210	26	D 22
0049013	151	CA	16.7	1079.	37.7N	119.6W	1210	26	C 40
0049014	152	CA	10.6	639.	37.7N	119.6W	1210	26	C 40
0049015	153	CA	7.5	514.	37.7N	119.6W	1210	26	C 40
0049016	154	CA	12.7	658.	37.7N	119.6W	1210	26	C 40
0049017	155	CA	22.7	1394.	37.7N	119.6W	1210	26	C 40
0049018	156	CA	27.0	1829.	37.7N	119.6W	1210	26	C 40
0049019	157	CA	20.4	1328.	37.7N	119.6W	1210	26	C 40
0049020	158	CA	35.6	2431.	37.7N	119.6W	1210	26	C 40

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0049021 159 CA	28.3	1859.	37.7N	119.6W	1210	26	C 40
0049022 160 CA	4.0	156.	37.7N	119.6W	1219	26	C 40
0049023 161 CA	4.3	212.	37.7N	119.6W	1210	26	C 40
0049024 162 CA	6.3	377.	37.7N	119.6W	1210	26	D 22
0049025 163 CA	5.5	236.	37.7N	119.6W	1210	26	D 22
0049026 164 CA	6.9	333.	37.7N	119.6W	1210	26	C 40
0049027 165 CA	30.1	2038.	37.7N	119.6W	1210	26	C 40
0049028 166 CA	0.0		37.7N	119.6W	1230	26	C 40
0050001 168 CA	18.1	924.	36.7N	118.9W	1676	26	D 22
0050002 168ACA	25.5	1582.	36.7N	118.9W	1676	26	D 22
0050003 968 CA	11.3	631.	36.6N	118.8W	1981	26	D 22
0050004 868 CA	16.3	839.	37.4N	119.6W	1829	26	D 22
0050005 768 CA	10.5	462.	37.7N	119.8W	1615	26	D 22
0051005 170 CA	7.4	455.	40.0N	121.0W	1128	26	C 40
0051006 171 CA	22.4	1464.	36.5N	118.3W	2896	26	C 40
0051007 173 CA	24.2	1678.	36.5N	118.3W	2896	26	C 40
0051008 175 CA	11.5	600.	36.5N	118.3W	2896	26	C 40
0051009 202 CA	88.8	6224.	36.5N	118.3W	2896	26	C 40
0051010 203 CA	3.8	232.	36.5N	118.4W	3230	26	C 40
0051011 204 CA	17.2	1082.	36.5N	118.1W	2987	26	C 40
0052001 205 CA	26.2	1987.	39.1N	120.2W	1950	26	D 22
0052002 206 CA	15.6	606.	39.1N	120.2W	1950	26	D 22
0052003 207 CA	19.7	617.	39.1N	120.2W	1950	26	D 22
0052004 208 CA	8.2	303.	39.1N	120.2W	1950	26	D 22
0052005 209 CA	10.9	500.	39.1N	120.2W	1950	26	D 22
0052006 210 CA	10.7	542.	39.1N	120.2W	1950	26	D 22
0053001 211 CA	25.2	1056.	38.9N	120.1W	1951	26	D 22
0053002 212 CA	8.3	387.	38.9N	120.1W	1951	26	D 22
0053003 213 CA	30.3	1198.	38.9N	120.1W	1951	26	D 22
0054001 232CA	25.6	681.	39.1N	120.3W	2650	26	D 22
0054002 233CA	11.6	992.	39.1N	120.3W	2650	26	C 40
0054003 234CA	20.5	1800.	39.1N	120.3W	2650	26	C 40
0054004 235CA	18.3	1319.	39.1N	120.3W	2650	26	C 40
0054005 236CA	7.1	295.	39.1N	120.3W	2650	26	D 22
0054006 237CA	16.2	1354.	39.1N	120.3W	2650	26	D 22
0054007 238CA	23.8	901.	39.1N	120.3W	2650	26	D 22
0054008 239CA	19.1	773.	39.1N	120.3W	2650	26	D 22
0054009 240CA	38.1	1933.	38.9N	120.0W	2632	26	D 22
0056002 242 NV	4.6	139.	39.2N	120.0W	2500	26	D 22
0057001 U231GU	42.3	1849.	15.5N	89.0W	0100	27	\$ 29
0057002 U232GU	21.9	981.	15.5N	89.0W	0100	27	\$ 29
0057003 U233GU	17.1	798.	15.5N	89.0W	0100	27	\$ 29
0057004 U234GU	13.5	690.	15.5N	89.0W	0100	27	\$ 29
0058001 U309HO	31.2	737.	15.5N	87.8W	0100	27	\$ 29
0058002 U312HO	19.7	871.	15.5N	87.8W	0100	27	\$ 29
0058003 U316HO	18.0	564.	15.5N	87.8W	0100	27	\$ 29
0058004 U318HO	33.4	1249.	15.5N	87.8W	0100	27	\$ 29
0058005 U319HO	16.5	644.	15.5N	87.8W	0100	27	\$ 29
0058006 U326HO	10.0	443.	15.5N	87.8W	0100	27	\$ 29
0058007 U327HO	24.5	574.	15.5N	87.8W	0100	27	\$ 29

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER			CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0058008	U330HO		33.2	871.	15.5N	87.8W	0100	27	\$ 29
0058009	U331HO		22.8	902.	15.5N	87.8W	0100	27	\$ 29
0058010	U332HO		17.8	673.	15.5N	87.8W	0100	27	\$ 29
0059001	U115PN		53.3	898.	8.1N	81.0W	0100	27	\$ 29
0059002	U117PN		50.9	1349.	8.1N	81.0W	0100	27	\$ 29
0059003	U125PN		27.9	909.	8.1N	81.0W	0100	27	\$ 29
0059004	U126PN		34.2	1035.	8.1N	81.0W	0100	27	\$ 29
0059005	U127PN		36.4	1155.	8.1N	81.0W	0100	27	\$ 29
0059006	U128PN		23.0	1076.	8.1N	81.0W	0100	27	\$ 29
0059007	U129PN		19.6	689.	8.1N	81.0W	0100	27	\$ 29
0059008	U130PN		22.7	1338.	8.1N	81.0W	0100	27	\$ 29
0059009	U131PN		36.0	1096.	8.1N	81.0W	0100	27	\$ 29
0059010	U132PN		32.0	1209.	8.1N	81.0W	0100	27	\$ 29
0060001	59 CA	3 18	5.5	530.	38.2N	121.5W	0378	40	J 47
0060002	59 CA	3 17	6.0	530.	38.2N	121.5W	0442	40	J 47
0060003	61 CA	9 6	8.8	647.	38.6N	120.7W	0728	7	J 47
0060004	59 CA	3 11	15.9	616.	38.5N	120.5W	1213	7	D 22
0060005	59 CA	3 12	18.2	677.	38.5N	120.5W	1123	7	D 22
0060006	58 CA	1 3	8.4	1153.	37.7N	121.7W	0335	7	I 46
0060007	58 CA	1 4	7.0	717.	37.7N	121.7W	0137	7	I 46
0060008	59 CA	3 6	2.8	300.	38.4N	120.7W	0427	7	I 46
0060009	59 CA	3 5	4.0	360.	38.5N	120.8W	0442	7	I 46
0060010	66 CA	37 3	4.7		32.8N	116.6W	0133	7	I 46
0060011	59 CA	3 7	3.9	321.	38.4N	121.0W	0189	7	I 46
0060012	59 CA	3 8	4.1	344.	38.5N	121.0W	0232	7	I 31
0060013	61 CA	32 16	3.3	176.	39.8N	120.2W	1498	7	C 40
0060014	61 CA	32 15	5.1	314.	39.7N	120.3W	1487	7	C 40
0060015	69 CA	33 1	5.1	148.	33.8N	116.9W	1097	7	I 46
0060016	60 CA	37 9	15.1	1077.	32.9N	116.7W	1463	7	D 22
0060017	61 CA	9 3	7.7	435.	38.8N	121.0W	0317	7	D 22
0060018	61 CA	9 4	7.2	356.	38.0N	121.0W	0274	7	D 22
0060019	64 CA	37 8	7.0	598.	33.3N	117.3W	0044	7	I 46
0060020	64 CA	37 9	4.5	155.	33.1N	116.9W	0472	7	I 46
0060021	68 CA	9 24	6.7	135.	38.9N	119.9W	1981	7	D 22
0060022	68 CA	9 27	6.2	154.	38.9N	119.9W	1990	7	D 22
0060023	68 CA	9 32	4.4	67.	38.9N	119.9W	2438	7	D 22
0060024	55 CA	18 3	2.8	84.	40.4N	120.5W	1250	7	I 30
0060025	61 CA	32 19	8.2	569.	39.8N	120.5W	1487	7	C 40
0060026	61 CA	46 5	8.5	532.	39.7N	120.4W	1495	7	C 40
0060027	56 CA	37 1	4.8	279.	32.8N	117.2W	0122	7	I 46
0060028	55 CA	36 7	0.7	37.	34.9N	117.2W	0762	7	G 51
0060029	55 CA	36 8	0.6	49.	34.9N	117.2W	0671	7	G 51
0060030	66 CA	25 2	2.9	298.	41.5N	120.6W	1350	7	C 40
0060031	66 CA	25 3	2.3	258.	41.5N	120.7W	1335	7	C 40
0060032	69 CA	36 27	14.5	921.	34.0N	117.7W	0229	7	I 46
0060033	55 CA	18 1	2.8	36.	40.4N	120.5W	1244	7	C 40
0060034	55 CA	33 8	1.2	83.	33.7N	117.0W	0503	7	I 46
0060035	69 CA	31 23	4.8	454.	38.8N	121.2W	0152	7	I 46
0060036	69 CA	31 18	3.7	300.	38.9N	120.7W	0038	7	I 46
0060037	60 CA	37 6	5.7	338.	33.1N	116.6W	1067	7	I 46

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER				CARBON	NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
				KG/M**2	G/M**2			M		A	B	C
0060038	61	CA	37	5	7.1	395.	32.7N	116.4W	1366	7	I	46
0060039	60	CA	37	5	5.2	391.	33.2N	116.5W	1219	7	I	46
0060040	61	CA	37	3	5.3	254.	33.2N	116.6W	1372	7	I	46
0060041	61	CA	37	6	8.0	628.	33.1N	116.6W	1372	7	I	46
0060042	61	CA	37	7	7.1	527.	33.1N	116.6W	1250	7	I	46
0060043	57	CA	33	4	1.3	116.	33.7N	117.3W	0500	7	I	46
0060044	58	CA	1	1	11.9	1831.	37.7N	121.8W	0183	7	I	46
0060045	58	CA	1	2	14.1	1911.	37.7N	121.8W	0259	7	I	46
0060046	68	CA	29	36	4.1	219.	39.3N	121.1W	0762	7	D	22
0060047	64	CA	37	6	4.4	241.	33.4N	116.6W	0209	7	I	46
0060048	60	CA	3	27	8.9	575.	38.5N	120.7W	0658	7	I	46
0060049	61	CA	37	1	6.9	495.	33.0N	116.6W	1128	7	I	46
0060050	60	CA	3	28	14.7	1029.	38.5N	120.7W	0604	7	I	46
0060051	69	CA	31	8	4.0	401.	38.7N	121.4W	0033	7	I	46
0060052	57	CA	33	16	2.9	306.	33.5N	117.2W	0384	7	I	46
0060053	66	CA	47	6	8.5	343.	42.0N	122.7W	0878	7	I	30
0060054	66	CA	47	8	6.7	261.	42.0N	122.6W	0866	7	I	30
0060055	60	CA	37	8	18.4	855.	33.0N	116.6W	1250	7	D	27
0060056	68	CA	29	33	8.5	292.	39.3N	120.9W	0846	7	D	27
0060057	68	CA	26	34	13.3	524.	39.3N	121.0W	0899	7	D	27
0060058	61	CA	9	5	7.5	584.	38.6N	120.6W	0777	7	D	22
0060059	61	CA	37	2	7.6	411.	33.0N	116.6W	1250	7	D	22
0060060	57	CA	41	1	3.3	184.	37.4N	122.3W	0579	7	D	22
0060061	57	CA	41	2	3.4	199.	37.4N	122.3W	0549	7	D	22
0060062	61	CA	49	7	4.3	488.	38.5N	122.8W	0034	7	I	46
0060063	61	CA	49	8	3.6	366.	38.6N	122.7W	0041	7	I	46
0060064	68	CA	9	29	4.3	250.	38.8N	120.0W	1981	7	D	22
0060065	68	CA	9	30	7.3	120.	38.8N	120.0W	1957	7	D	22
0060066	68	CA	9	34	6.0	108.	38.8N	119.9W	2115	7	D	22
0060067	68	CA	9	33	10.1	330.	38.8N	120.0W	1951	7	D	22
0060068	59	CA	3	4	6.9	278.	38.4N	120.7W	0664	7	D	22
0060069	60	CA	3	29	8.4	425.	38.4N	120.7W	0637	7	D	22
0060070	66	CA	47	1	8.3	266.	42.0N	122.7W	1073	7	D	22
0060071	66	CA	47	2	5.0	259.	42.0N	122.7W	1073	7	D	22
0060072	66	CA	47	3	3.9	78.	42.0N	122.7W	1006	7	D	22
0060073	66	CA	47	4	5.1	172.	42.0N	122.6W	0927	7	D	22
0060074	66	CA	47	5	7.6	227.	42.0N	122.6W	0927	7	D	22
0060075	60	CA	3	24	9.0	435.	38.4N	120.7W	0625	7	D	22
0060076	60	CA	37	1	5.2	375.	33.2N	116.5W	1250	7	I	46
0060077	60	CA	37	2	5.8	325.	33.2N	116.4W	1250	7	I	46
0060078	60	CA	37	4	5.7	367.	33.2N	116.5W	1219	7	I	46
0060079	61	CA	37	4	7.1	467.	32.7N	116.4W	1390	7	I	46
0060080	55	CA	24	1	7.7	696.	37.1N	120.9W	0029	7	I	31
0060081	57	CA	33	6	8.6	767.	33.8N	117.2W	0431	7	I	31
0060082	55	CA	36	9	0.3	15.	34.8N	116.6W	0549	7	G	51
0060083	65	CA	27	4	17.2	1056.	36.3N	121.1W	0183	7	I	46
0060084	62	CA	42	11	13.3	1209.	34.8N	120.3W	0259	7	I	46
0060085	55	CA	41	13	13.3	964.	37.4N	122.3W	0091	7	I	46
0060086	55	CA	41	14	15.9	1482.	37.4N	122.4W	0098	7	I	46
0060087	59	CA	01	5	7.6	809.	37.6N	122.0W	0366	7	I	46

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON		NITROGEN		LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2		G/M**2				M		A	B	C
0060088	59	CA 01	6	8.9	893.	37.8N	121.9W	0137	7	I	46
0060089	61	CA 32	21	2.8	164.	39.7N	120.4W	1491	7	C	40
0060090	61	CA 46	6	5.5	373.	39.7N	120.4W	1497	7	C	40
0060091	61	CA 32	11	4.0	184.	39.7N	120.2W	1490	7	I	46
0060092	61	CA 32	10	2.4	101.	39.7N	120.2W	1490	7	I	46
0060093	60	CA 3	36	6.9	396.	38.5N	120.6W	0902	7	D	27
0060094	60	CA 3	25	5.8	195.	38.5N	120.6W	0884	7	D	27
0060095	59	CA 3	1	9.5	825.	38.5N	121.8W	0506	40	I	46
0060096	59	CA 3	2	10.4	1009.	38.1N	121.5W	0366	40	I	46
0060097	55	CA 36	10	0.5	21.	34.8N	116.6W	0549	7	G	51
0060098	57	CA 33	3	1.5	136.	33.7N	116.5W	0436	7	G	51
0060099	57	CA 33	5	1.2	93.	33.7N	116.5W	0451	7	G	51
0060100	59	CA 01	5	6.0	645.	37.6N	122.0W	0366	7	I	46
0060101	55	CA 36	5	2.6	178.	34.8N	116.6W	0762	7	G	51
0060102	59	CA 36	1	1.9	171.	34.5N	116.6W	2143	7	G	51
0060103	45	CA 52	X9	1.7	372.	40.0N	121.7W	0094	7	I	31
0060104	57	CA 33	13	2.5	277.	33.9N	117.2W	0570	7	I	31
0060105	66	CA 37	1	10.5		32.8N	117.2W	0133	7	I	31
0060106	69	CA 31	10	3.4	243.	38.8N	121.3W	0037	7	I	31
0060107	55	CA 33	15	3.1	134.	33.5N	116.6W	0335	7	I	31
0060108	59	CA 3	13	12.4	522.	38.4N	120.6W	0817	7	D	22
0060109	59	CA 3	14	17.3	739.	38.4N	120.6W	0902	7	D	22
0060110	62	CA 43	1	4.0	115.	34.9N	120.4W	0122	7	I	31
0060111	62	CA 42	2	3.4	56.	34.8N	120.4W	122.	7	I	31
0060112	61	CA 32	17	3.9	269.	39.6N	120.3W	1487	7	C	40
0060113	60	CA 3	22	3.2	285.	38.3N	121.0W	0168	7	I	46
0060114	60	CA 3	33	2.2	214.	38.3N	121.0W	0091	7	I	46
0060115	60	CA 3	20	2.6	151.	38.2N	121.0W	0152	7	I	46
0060116	60	CA 3	21	2.9	258.	38.2N	121.0W	0067	7	I	46
0060117	64	CA 48	3	7.7	659.	38.3N	121.8W	0007	7	I	46
0060118	64	CA 57	12	14.3	1206.	38.6N	121.7W	0011	7	I	46
0060119	57	CA 7	3	9.0	695.	38.0N	121.6W	0000	7	I	46
0060120	60	CA 01	2	8.7	779.	37.6N	121.7W	0180	7	I	46
0060121	55	CA 41	4	17.0	901.	37.4N	122.4W	0145	7	I	46
0060122	59	CA 01	1	6.1	577.	37.6N	121.7W	0183	7	D	22
0060123	59	CA 01	2	5.6	516.	37.6N	121.8W	0195	7	I	46
0060124	58	CA 20	1	11.9	1091.	37.0N	120.5W	0040	7	I	31
0060125	61	CA 32	13	15.3	1233.	39.4N	120.3W	1490	7	C	40
0060126	61	CA 32	14	22.9	1940.	39.4N	120.3W	1490	7	C	40
0060127	59	CA 3	9	6.5	578.	38.4N	121.0W	0076	40	I	31
0060128	59	CA 3	10	6.0	508.	38.3N	121.0W	0091	7	I	31
0060129	45	CA 45	X8	5.8	566.	40.4N	122.4W	0152	7	I	31
0060130	59	CA 3	9	8.3	568.	38.4N	121.0W	0076	7	I	31
0060131	45	CA 52	5	2.2	406.	40.1N	122.2W	0096	7	I	31
0060132	66	CA 37	2	8.6		32.8N	117.2W	0133	7	I	31
0060133	66	CA 37	4	4.4		32.9N	117.1W	0133	7	I	31
0060134	61	CA 09	1	5.7	505.	38.7N	121.0W	0366	7	I	46
0060135	61	CA 9	2	8.7	450.	38.7N	121.0W	0421	7	I	46
0060136	55	CA 36	6	3.3	259.	34.9N	117.2W	0762	7	G	51
0060137	69	CA 31	22	6.2	361.	38.7N	121.2W	0094	7	I	46

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON		NITROGEN		LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2		G/M**2				M		A	B	C
0060138	65	CA 27	6	1.4	79.	36.3N	121.1W	0457	7	I	46
0060139	65	CA 27	28	4.8	224.	36.4N	121.2W	0457	7	I	46
0060140	59	CA 3	17	6.5	593.	38.5N	120.8W	0442	7	I	46
0060141	59	CA 3	18	5.9	576.	38.5N	120.8W	0378	7	I	46
0060142	69	CA 31	20	2.1	162.	38.9N	121.5W	0030	7	I	46
0060143	62	CA 42	9	47.1	3489.	34.9N	120.6W	0427	7	I	46
0060144	62	CA 42	10	50.0	3912.	34.9N	120.6W	0457	7	I	46
0060145	64	CA 37	18	0.0		32.5N	117.0W	0613	7	I	46
0060147	68	CA 29	7	3.5	85.	39.2N	121.1W	0689	7	I	46
0060148	68	CA 29		6.2	249.	39.2N	121.0W	0701	7	I	46
0060149	68	CA 29	35	4.6	238.	39.3N	121.0W	0739	7	I	46
0060150	65	CA 27	9	12.6	538.	36.2N	121.0W	0381	7	I	46
0060151	65	CA 27	8	11.1	510.	36.2N	121.0W	0381	7	I	46
0060152	60	CA 37	7	7.8	307.	33.0N	116.5W	1524	7	I	46
0060153	65	CA 27	20	8.6	580.	36.4N	121.9W	0427	7	I	46
0060154	65	CA 27	23	5.3	250.	36.6N	121.4W	0869	7	I	46
0060155	65	CA 27	25	4.8	190.	36.6N	121.4W	0945	7	I	46
0060156	65	CA 27	26	6.5	291.	36.6N	121.4W	0945	7	I	46
0060157	65	CA 27	21	14.0	679.	36.4N	121.9W	0427	7	I	46
0060158	65	CA 27	22	9.2	454.	36.4N	121.9W	0610	7	I	46
0060159	65	CA 27	24	10.3	568.	36.6N	121.3W	0869	7	I	46
0060160	59	CA 3	15	5.5	516.	38.5N	120.8W	0491	7	I	46
0060161	59	CA 3	3	8.9	535.	38.4N	120.7W	0853	7	D	22
0060162	59	CA 3	4	6.8	273.	38.3N	120.7W	0664	40	D	22
0060163	68	CA 29	31	20.0	701.	39.2N	121.0W	0805	7	D	22
0060164	68	CA 29	32	20.9	593.	39.2N	121.0W	0829	7	D	22
0060165	54	CA 18	2	8.5	413.	40.4N	120.4W	1234	7	C	40
0060166	64	CA 48	7	6.4	536.	38.2N	122.0W	0003	7	I	46
0060167	61	CA 49	3	11.9	1111.	38.4N	122.9W	0005	7	I	46
0060168	65	CA 27	19	13.7	590.	36.2N	121.8W	0625	7	I	31
0060169	66	CA 47	10	5.9	299.	41.4N	122.8W	0963	7	I	31
0060170	66	CA 47	9	5.0	149.	41.4N	122.8W	1073	7	I	31
0060171	59	CA 3	1	10.5	915.	38.4N	120.8W	0506	7	I	46
0060172	59	CA 3	2	11.3	1076.	38.3N	120.9W	0366	7	I	46
0060173	55	CA 41	10	8.3	610.	37.4N	122.3W	0640	7	I	31
0060174	55	CA 41	9	12.3	925.	37.4N	122.3W	0640	7	I	31
0060175	62	CA 42		3.6	68.	34.7N	120.6W	0107	7	I	46
0060176	62	CA 42	8	4.5	166.	34.7N	120.6W	0110	7	I	46
0060177	55	CA 33	9	3.4	174.	33.5N	117.2W	0732	7	I	46
0060178	68	CA 9	20	6.0	131.	38.9N	119.9W	1981	7	D	22
0060179	68	CA 9	23	4.8	825.	38.9N	119.9W	2134	7	D	22
0060180	61	CA 31	1	4.8	359.	38.8N	121.3W	0052	7	I	46
0060181	61	CA 31	2	2.9	254.	38.8N	121.3W	0037	7	I	46
0060182	66	CA 25	1	14.7	498.	42.0N	120.7W	1661	7	D	22
0060183	68	CA 29	29	9.0	455.	39.3N	121.2W	0396	7	I	46
0060184	45	CA 37	X15	6.0	491.	32.8N	117.2W	0126	7	I	46
0060185	59	CA 01	6	9.0	790.	37.7N	122.0W	0137	7	I	46
0060186	59	CA 01	8	3.4	310.	37.5N	121.6W	0756	7	I	46
0060187	59	CA 1	9	3.4	341.	37.5N	121.6W	0716	7	I	46
0060188	55	CA 33	6	2.7	100.	33.7N	117.0W	0503	7	C	41

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON		NITROGEN		LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2		G/M**2				M		A	B	C
0060189	55	CA	33	7	2.7	128.	33.6N	116.9W	0777	7	C 41
0060190	64	CA	37	1	4.3	215.	33.3N	117.3W	0180	7	C 41
0060191	64	CA	37	4	3.7	210.	33.3N	117.3W	0216	7	C 41
0060192	55	CA	41	11	15.0	1081.	37.4N	122.4W	0021	7	I 46
0060193	55	CA	41	12	17.9	1104.	37.4N	122.4W	0021	7	I 46
0060194	55	CA	24	3	10.4	1030.	37.1N	120.8W	0030	7	I 31
0060195	61	CA	49	1	5.4	517.	38.4N	122.9W	0025	7	I 46
0060196	61	CA	49	2	10.5	828.	38.4N	122.8W	0025	7	I 46
0060197	65	CA	27	5	12.3	672.	36.3N	121.1W	0396	7	I 46
0061001	70	OR	3	6	18.4	878.	45.1N	122.0W		39	D 22
0061003	72	OR	6	4	16.3	1120.	43.1N	124.1W		39	D 22
0061004	72	OR	6	7	14.2	1097.	43.1N	124.1W		39	D 22
0061005	70	OR	3	3	10.3	640.	45.1N	122.0W		39	D 22
0061006	70	OR	3	4	8.5	731.	45.1N	122.0W		39	D 22
0061007	70	OR	26	8	10.3	719.	45.5N	122.0W		39	D 22
0061008	70	OR	26	9	6.8	503.	45.5N	122.0W		39	D 22
0061009	70	OR	26	6	11.8	868.	45.5N	122.0W		39	D 22
0061010	70	OR	26	7	14.7	897.	45.5N	122.0W		39	D 22
0061011	70	OR	3	1	11.8	736.	45.1N	122.0W		39	D 22
0061012	70	OR	3	2	11.3	759.	45.1N	122.0W		39	D 22
0061013	69	OR	15	3	12.2	440.	42.5N	122.8W		39	D 22
0061014	69	OR	15	4	7.5	333.	42.5N	122.8W		39	D 22
0061015	73	OR	6	5	39.3	2612.	43.1N	124.1W		39	D 22
0061016	73	OR	6	6	19.3	1219.	43.1N	124.1W		39	D 22
0061017	73	OR	6	1	10.3	862.	43.1N	124.1W		39	D 22
0061018	73	OR	6	2	22.0	1541.	43.1N	124.1W		39	D 22
0061019	70	OR	26	5	5.9	404.	45.5N	122.0W		39	D 22
0061020	70	OR	26	10	5.7	416.	45.5N	122.0W		39	D 22
0061021	73	OR	6	4	24.7	1415.	43.1N	124.1W		39	D 22
0061022	73	OR	6	7	18.2	1299.	43.1N	124.1W		39	D 22
0061023	69	OR	17	1	9.0	425.	42.4N	123.5W		39	D 22
0061024	69	OR	17	2	7.8	376.	42.4N	123.5W		39	D 22
0061025	69	OR	17	3	6.3	195.	42.4N	123.5W		39	D 22
0061026	70	OR	34	1	11.3	502.	45.5N	123.0W		39	D 22
0061027	70	OR	34	2	7.6	520.	45.5N	123.0W		39	D 22
0061028	72	OR	18	5	2.2	86.	42.6N	121.5W		39	D 22
0061029	72	OR	18	6	4.8	185.	42.6N	121.5W		39	D 22
0061030	72	OR	18	7	5.3	238.	42.6N	121.5W		39	D 22
0061031	72	OR	18	8	3.4	138.	42.6N	121.5W		39	D 22
0061032	72	OR	18	9	3.7	148.	42.6N	121.5W		39	D 22
0061033	72	OR	18	10	8.8	330.	42.6N	121.5W		39	D 22
0061034	72	OR	10	1	56.1	2876.	43.3N	123.0W		39	D 22
0061035	72	OR	20	1	34.5	2000.	43.8N	122.9W		39	D 22
0061036	72	OR	18	13	5.2	252.	42.6N	121.5W		39	D 22
0061037	72	OR	6	5	18.5	1238.	43.1N	124.1W		39	D 22
0061038	72	OR	6	8	12.1	726.	43.1N	124.1W		39	D 22
0061039	73	OR	6	3	23.3	1584.	43.1N	124.1W		39	D 22
0061040	73	OR	6	8	16.7	2070.	43.1N	124.1W		39	D 22
0061041	73	OR	8	1	19.3	1816.	42.5N	124.1W		39	D 22
0061042	69	OR	15	7	11.4	299.	42.5N	122.8W		39	D 22

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER			CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0061043	69 OR 15	8	6.3	345.	42.5N	122.8W		39	D 22
0061044	69 OR 17	4	5.8	328.	42.4N	123.5W		39	D 22
0061045	70 OR 26	1	12.9	825.	45.5N	122.0W		39	D 22
0061046	70 OR 26	2	12.4	881.	45.5N	122.0W		39	D 22
0061047	69 OR 15	2	4.6	196.	42.5N	122.8W		39	D 22
0061048	69 OR 15	6	9.2	344.	42.5N	122.8W		39	D 22
0061049	72 OR 6	1	33.5	2218.	43.1N	124.1W		39	D 22
0061050	72 OR 6	6	39.3	2682.	43.1N	124.1W		39	D 22
0061051	72 OR 18	1	5.6	239.	42.6N	121.5W		39	D 22
0061052	72 OR 18	2	5.7	219.	42.6N	121.5W		39	D 22
0061053	72 OR 18	14	5.0	226.	42.6N	121.5W		39	D 22
0061054	72 OR 18	3	7.0	291.	42.6N	121.5W		39	D 22
0061055	72 OR 18	4	8.4	380.	42.6N	121.5W		39	D 22
0061056	72 OR 6	2	20.2	1274.	43.1N	124.1W		39	D 22
0061057	72 OR 6	3	33.8	2036.	43.1N	124.1W		39	D 22
0061058	72 OR 18	11	5.7	267.	42.6N	121.5W		39	D 22
0061059	72 OR 18	12	4.2	205.	42.6N	121.5W		39	D 22
0061060	69 OR 15	1	9.1	246.	42.5N	122.8W		39	D 22
0061061	69 OR 15	5	7.2	279.	42.5N	122.8W		39	D 22
0062001	34B306		5.1	152.	40.3N	121.4W	1463	25	D 22
0062002	68D206		6.7	799.	38.2N	120.7W		25	I 46
0062003	69C204		7.6	491.	38.2N	120.4W		25	I 46
0062004	32D204		5.5	565.	40.2N	122.2W	122	25	I 46 75X
0062005	49A103		7.8	718.	39.4N	121.6W	61	25	J 47 75X
0062006	32D302		4.0	640.	40.1N	122.2W	122	25	C 41 75X
0062007	68C202		11.3	922.	38.2N	120.9W		25	I 46
0062008	50B404		13.8	780.	39.3N	121.3W	427	25	C 41
0062009	50B306		18.8	756.	39.3N	121.4W	122	25	C 41
0062010	34B302		15.9	1560.	40.3N	121.4W	1524	25	C 41 598
0062011	68C203		7.4	704.	38.2N	120.9W		25	I 46
0062012	32D301		3.9	580.	40.1N	122.2W	122	25	C 41 75X
0062013	40D403		10.4	766.	39.6N	121.6W	122	25	C 41 75X
0062014	32D114		3.1	311.	40.2N	122.1W	91	25	C 41 359
0062015	32D303		3.3	492.	40.1N	122.2W	122	25	C 41 75X
0062016	41B101		3.3	438.	39.9N	122.3W	122	25	I 46 75X
0062017	49A102		1.9	87.	39.4N	121.6W	61	25	C 41 75X
0062018	49A401		5.2	383.	39.3N	121.6W	30	25	C 41 75X
0062019	61C406		9.3	385.	38.6N	123.3W	91	25	E 27 70X
0062020	11D307		15.0	550.	41.1N	123.7W	884	25	E 27 696
0062021	14C101		16.3	793.	41.2N	122.3W	671	25	E 27 696
0062022	22C311		17.1	809.	40.6N	121.9W	762	25	E 27 350
0062023	33A220		12.5	500.	40.4N	121.7W	1219	25	D 22 406
0062024	39D408		28.0	897.	39.6N	121.1W	1219	25	D 22 359
0062025	40A301		0.0	497.	39.8N	121.7W		25	D 22
0062026	69C106		28.0	824.	38.2N	120.3W	1280	25	D 22 359
0062027	90A402		0.0		37.3N	119.1W	2895	25	D 22 040
0062028	33A108		27.6	1206.	40.4N	121.6W	1829	25	D 22 359
0062029	34C206		28.3	1597.	40.2N	121.4W	2042	25	D 22 359
0062030	38C202		25.9	832.	39.7N	120.9W	1737	25	E 22
0062031	69A211		30.9	1774.	38.4N	120.2W	1890	25	D 22 359

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0062032	69B104	30.9	1074.	38.4N	120.3W	1646	25	D 22 358
0062033	22D305	6.4	225.	40.6N	121.7W	1798	25	D 22 340
0062034	33A201	2.9	65.	40.4N	121.7W	1280	25	D 22 300
0062035	33B309	18.3	594.	40.3N	121.9W	610	25	E 27 406
0062036	33B327	15.5	861.	40.3N	121.9W	518	25	E 27 400
0062037	68A403	7.8	355.	38.3N	120.6W	732	25	E 27 04X
0062038	69B210	9.9	375.	38.4N	120.4W	1036	25	E 27 040
0062039	90C404	11.5	491.	37.1N	119.3W	1372	25	D 22 04X
0062040	90C407	16.8	746.	37.1N	119.3W	1250	25	D 22 04X
0062042	14C102	12.9	509.	41.2N	122.3W	671	25	E 27 10X
0062043	24D405	12.6	585.	40.6N	122.6W	427	25	E 27 696
0062044	40A103	21.2	710.	39.9N	121.6W		25	E 27
0062045	42A205	8.0	354.	39.9N	122.7W	1219	25	D 22 696
0062046	47B105	10.7	427.	39.4N	122.8W	1280	25	D 22 696
0062047	50A212	16.8	588.	39.4N	121.2W	488	25	E 27 696
0062048	60C302	17.3	987.	38.6N	122.9W	61	25	E 27 696
0062049	90A105	9.8	371.	37.4N	119.1W	2469	25	D 22 40X
0062050	60A301	12.3	385.	38.8N	122.7W	1158	25	D 22 300
0062051	24D212	2.8	171.	40.7N	122.7W		25	D 22
0062052	69A208	10.6	364.	38.4N	120.2W	1615	25	D 22 040
0062053	90A303	0.0		37.3N	119.2W	2194	25	D 22 030
0062054	90B406	3.7	133.	37.3N	119.3W	1554	25	D 24 03X
0062055	90D302	8.2	395.	37.1N	119.2W	1951	25	D 22 04X
0062056	22D206	20.0	870.	40.7N	121.7W	1890	25	D 22 35X
0062057	22D220	10.0	331.	40.7N	121.7W	1829	25	D 22 350
0062058	22D304	11.6	423.	40.6N	121.7W	1920	25	D 22 332
0062059	33A304	11.1	405.	40.3N	121.7W	1676	25	D 22 35X
0062060	33D104	20.7	589.	40.2N	121.6W	1372	25	D 22 34X
0062061	34B304	5.5	129.	40.3N	121.4W		25	D 22
0062062	34B308	9.6	236.	40.3N	121.4W	1524	25	D 22 30X
0062063	22B101	18.9	652.	40.9N	121.8W	640	25	E 27 459
0062064	22D208	22.7	755.	40.7N	121.7W	2012	25	D 22 350
0062065	22D210	24.1	460.	40.7N	121.7W	1768	25	D 22 350
0062066	22D214	37.4	2397.	40.7N	121.7W	1676	25	E 41 350
0062067	22D321	10.5	500.	40.6N	121.7W	2012	25	D 22 459
0062068	33A208	36.4	1172.	40.4N	121.7W	1737	25	D 22 400
0062069	33D114	15.4	609.	40.2N	121.6W	1707	25	D 22 350
0062070	69A212	37.0	1442.	38.4N	120.2W	1798	25	D 22 359
0062071	69B404	30.3	1476.	38.3N	120.3W	1615	25	D 22 359
0062072	100A106	55.3	932.	36.9N	119.1W	2438	25	E 22 40X
0062073	22D207	1.4	536.	40.7N	121.7W	1433	25	D 22 350
0062074	33D205	9.1	221.	40.2N	121.7W	1158	25	D 22 359
0062075	33D405	5.6	294.	40.1N	121.6W	1219	25	D 22 359
0062076	69B407	25.3	1112.	38.3N	120.3W	1494	25	D 22 359
0062077	50A211	14.3	570.	39.4N	121.2W	792	25	E 27 10X
0062079	69B101	37.9	1411.	38.4N	120.3W	1463	25	D 22 359
0062080	11D404	12.9	584.	41.1N	123.6W	1433	25	D 22 044
0062081	39D406	29.5	998.	39.6N	121.1W	1341	25	D 22 696
0062082	69A209	12.6	557.	38.4N	120.2W	1646	25	D 22 044
0062083	69B103	8.9	321.	38.4N	120.3W	1311	25	D 22 040

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON		NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2	G/M**2						A	B	C
0062084	90A104	7.5	251.	37.4N	119.1W	2408	25	D	22	40X
0062085	69A201	20.9	860.	38.4N	120.2W	1768	25	D	22	040
0062086	69A301	6.7	297.	38.3N	120.2W	1920	25	D	22	040
0062087	90D201	0.0		37.2N	119.2W	2195	25	D	22	050
0062088	90D305	13.2	700.	37.1N	119.2W	1768	25	D	22	05X
0062089	90D309	11.0	405.	37.1N	119.2W	1768	25	D	22	05X
0062090	112D210	14.8	531.	36.2N	118.7W	1798	25	D	22	
0062091	112D211	14.8	561.	36.2N	118.7W	1859	25	D	22	
0062092	68A404	33.8	361.	38.3N	120.6W	640	25	E	24	04X
0062093	69D204	15.2	374.	38.2N	120.2W	1372	25	D	22	
0062094	90C103	2.8	146.	37.2N	119.3W	1646	25	D	22	04X
0062095	90C309	7.3	440.	37.1N	119.4W	1280	25	D	22	05X
0062096	90D307	4.6	334.	37.1N	119.2W	1128	25	I	46	04X
0062097	23C209	3.2	146.	40.7N	122.4W	274	25	K	27	048
0062098	112D212	14.7	610.	36.2N	118.7W	1829	25	D	22	
0062099	112D213	10.2	428.	36.2N	118.7W		25	D	22	
0062100	50A205	15.2	456.	39.4N	121.2W	762	25	E	27	04X
0062101	69B208	15.3	622.	38.4N	120.4W	1128	25	D	22	040
0062102	90C113	8.6	411.	37.2N	119.3W	1676	25	D	22	03X
0062103	90D308	9.1	431.	37.1N	119.2W	1067	25	E	27	05X
0062104	24C106	6.9	402.	40.7N	122.8W		25	D	22	
0062105	39B202	5.6	127.	39.9N	121.4W		25	D	22	
0062106	90A204	5.4	161.	37.4N	119.2W	2073	25	D	22	04X
0062107	112D202	20.6	809.	36.2N	118.7W	1890	25	D	22	
0062108	69A213	3.9	155.	38.4N	120.2W	1737	25	D	22	040
0062109	23C208	2.6	173.	40.7N	122.4W	244	25	K	27	048
0062110	24D108	7.6	211.	40.7N	122.6W	914	25	E	27	300
0062111	11D201	11.5	373.	41.2N	123.7W	610	25	E	27	21X
0062112	11D308	10.6	478.	41.1N	123.7W	853	25	E	27	21X
0062113	14C303	12.1	442.	41.1N	122.4W	640	25	E	27	21X
0062114	11D406	5.2	211.	41.1N	123.6W	1189	25	D	22	696
0062115	39D404	38.4	951.	39.6N	121.1W	1219	25	E	22	04X
0062116	38C201	56.4	3226.	39.7N	120.9W	1707	25	E	22	
0062117	33A311	10.5	540.	40.3N	121.7W	1128	25	D	22	359
0062118	33B118	15.6	677.	40.4N	121.8W	945	25	E	27	40X
0062119	60A244	9.1	438.	38.9N	122.7W	914	25	E	27	350
0062120	60D203	14.7	770.	38.7N	122.7W	914	25	J	26	359
0062121	39D301	28.0	1071.	39.6N	121.2W		25	D	22	
0062122	50A206	26.3	1012.	39.4N	121.2W	853	25	E	27	696
0062123	50A213	22.0	850.	39.4N	121.2W	1097	25	D	22	696
0062124	50A305	19.1	956.	39.3N	121.2W	823	25	E	27	696
0062125	39C410	19.6	612.	39.6N	121.3W	853	25	E	27	101
0062126	39D302	27.8	1377.	39.6N	121.2W		25	E	27	
0062127	50A210	13.1	835.	39.4N	121.2W	579	25	E	27	10X
0062128	39B301	26.5	1298.	39.8N	121.4W		25	E	24	
0062129	39C408	13.0	460.	39.6N	121.3W	457	25	E	27	10X
0062130	39C409	15.4	746.	39.6N	121.3W	457	25	E	27	10X
0062131	24D201	7.5	584.	40.7N	122.7W		25	D	22	
0062132	39D202	5.0	260.	39.7N	121.2W	1280	25	D	22	
0062133	39D403	15.9	407.	39.6N	121.1W	1219	25	D	22	04X

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0062134	39D409	17.6	567.	39.6N	121.1W	1158	25	D 22 050
0062135	40A102	16.5	1020.	39.9N	121.6W		25	D 22
0062136	69A302	27.9	849.	38.3N	120.2W		25	D 22
0062137	50A207	15.2	491.	39.4N	121.2W	640	25	E 27 050
0062138	68A101	12.6	810.	38.4N	120.6W	762	25	E 27 04X
0062139	69B209	15.1	671.	38.4N	120.4W	1067	25	E 27 04X
0062140	90C403	16.4	802.	37.1N	119.3W	1158	25	D 22 040
0062141	90C405	15.5	726.	37.1N	119.3W	1524	25	D 22 040
0062142	112D203	18.3	995.	36.2N	118.7W	1280	25	D 22
0062143	112D204	17.9	1041.	36.2N	118.7W	1280	25	D 22
0062144	39D104	4.8	267.	39.7N	121.1W	1463	25	D 22
0062145	22C119	12.6	601.	40.7N	121.8W	1128	25	D 22 400
0062146	22D217	6.9	276.	40.7N	121.7W	1615	25	D 22 400
0062147	22D306	11.3	541.	40.6N	121.7W	1402	25	D 22 350
0062148	33A203	15.8	552.	40.4N	121.7W	1494	25	D 22 350
0062149	33B408	0.0		40.3N	121.8W	1066	25	D 22 358
0062150	33D408	17.7	681.	40.1N	121.6W	1311	25	D 22 359
0062151	69B205	15.6	600.	38.4N	120.4W	1311	25	D 22 359
0062152	112A306	23.2	956.	36.3N	118.7W	1859	25	D 22
0062153	50B102	9.8	747.	39.4N	121.3W		25	D 22
0062154	60C105	11.1	769.	38.7N	122.8W	274	25	E 27 403
0062155	24C108	3.8	334.	40.7N	122.8W		25	E 24
0062156	24D110	3.9	187.	40.7N	122.6W	671	25	J 47 002
0062157	24D111	1.7	94.	40.7N	122.6W	335	25	I 46 048
0062158	39C407	4.8	349.	39.6N	121.3W		25	I 31
0062159	60C106	10.5	655.	38.7N	122.8W	122	25	E 27 696
0062160	14C304	16.1	705.	41.1N	122.4W	853	25	E 27 20X
0062161	39D308	17.8	715.	39.6N	121.2W	945	25	E 27 21X
0062162	11D203	11.3	557.	41.2N	123.7W	945	25	E 27 20X
0062163	11D305	7.1	261.	41.1N	123.7W	701	25	E 27 21X
0062164	14C401	15.0	579.	41.1N	122.3W	671	25	E 27 21X
0062165	31C201	9.6	334.	40.2N	122.9W	1219	25	D 22 21X
0062166	50A202	15.1	619.	39.4N	121.2W	945	25	E 27 21X
0062167	60B114	8.7	315.	38.9N	122.8W	853	25	E 27 352
0062168	11D403	8.5	229.	41.1N	123.6W	1158	25	D 22 696
0062169	14C103	12.5	476.	41.2N	122.3W	792	25	E 27 10X
0062170	24D406	6.6	299.	40.6N	122.6W	549	25	E 27 696
0062171	31C202	5.7	146.	40.2N	122.9W	1311	25	D 22 696
0062172	31C204	8.8	289.	40.2N	122.9W	1341	25	D 22 696
0062173	40A101	13.4	572.	39.9N	121.6W		25	D 22
0062174	42C101	7.2	221.	39.7N	122.8W	1798	25	D 22 696
0062175	47A206	10.8	316.	39.4N	122.7W	1676	25	D 22 696
0062176	50A304	7.6	338.	39.3N	121.2W	518	25	J 47 10X
0062177	50B301	6.0	713.	39.3N	121.4W	61	25	J 47 696
0062178	79A201	9.5	838.	37.9N	120.7W	427	25	J 47 696
0062179	79A203	7.9	749.	37.9N	120.7W	305	25	C 41 696
0062180	100B109	2.9	248.	36.9N	119.3W	335	25	C 41 21X
0062181	50B304	2.8	306.	39.3N	121.4W	244	25	J 47 050
0062182	100A212	9.5	831.	36.9N	119.2W	701	25	J 47 10X
0062183	100B107	8.1	490.	36.9N	119.3W	305	25	E 24 10X

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0062184	64B203	4.0	332.	38.4N	122.9W	152	25 C 41 21X
0062185	26A308	44.9	1671.	40.8N	123.7W	1554	25 D 22 04X
0062186	40D406	11.8	872.	39.6N	121.6W	366	25 C 41 402
0062187	23C301	8.1	588.	40.6N	122.4W	244	25 J 47 696
0062188	39C308	6.2	453.	39.6N	121.4W	305	25 E 24 696
0062189	68D302	3.8	365.	38.1N	120.7W	366	25 C 41 696
0062190	68D403	6.6	519.	38.1N	120.6W	396	25 J 47 622
0062191	79A301	3.9	503.	37.8N	120.7W	244	25 C 41 696
0062192	79A101	6.2	575.	37.9N	120.6W	305	25 J 47 696
0062193	79A202	4.1	478.	37.9N	120.7W	213	25 J 47 696
0062194	79A302	4.0	363.	37.8N	120.7W	152	25 C 41 696
0062195	79A105	7.8	692.	37.9N	120.6W	396	25 C 41
0062196	79A106	4.3	366.	37.9N	120.6W	396	25 C 41
0062197	40D405	7.3	590.	39.6N	121.6W	366	25 C 41 400
0062198	40D409	8.0	600.	39.6N	121.6W	305	25 C 41 400
0062199	41B403	5.0	486.	39.8N	122.3W	274	25 C 41 402
0062200	39C310	8.8	710.	39.6N	121.4W	488	25 J 47 04X
0062201	50A301	7.5	622.	39.3N	121.2W	488	25 E 24 044
0062202	89D404	7.9	612.	37.1N	119.6W	701	25 J 47 05X
0062203	100A202	4.2	327.	36.9N	119.2W	518	25 J 47 050
0062204	60B120	10.6	449.	38.9N	122.8W	792	25 I 46 350
0062205	32A109	4.0	358.	40.4N	122.1W	274	25 C 41 400
0062206	32A110	7.5	490.	40.4N	122.1W	274	25 J 47 400
0062207	33B221	18.7	1381.	40.4N	121.9W	427	25 J 47 400
0062208	40A302	17.8	783.	39.8N	121.7W		25 I 46
0062209	40D404	15.6	1167.	39.6N	121.6W	335	25 C 41 400
0062210	60A412	11.6	798.	38.8N	122.6W	518	25 E 24 35X
0062211	60C202	13.3	988.	38.7N	122.9W	152	25 J 26 40X
0062212	33B323	27.1	1122.	40.3N	121.9W	335	25 J 47 359
0062213	40D202	11.4	902.	39.7N	121.7W		25 I 46
0062214	33A101	17.8	1347.	40.4N	121.6W	2134	25 C 41 359
0062215	47C302	4.9	355.	39.1N	122.9W	518	25 J 47 40X
0062216	50B208	10.0	874.	39.4N	121.4W	183	25 E 24 696
0062217	50B401	8.4	353.	39.3N	121.3W	335	25 J 47
0062218	60C102	7.8	280.	38.7N	122.8W	335	25 J 26 696
0062219	79A103	7.1	651.	37.9N	120.6W	305	25 J 47 696
0062220	79A205	5.7	504.	37.9N	120.7W	244	25 J 47 696
0062221	50A307	8.4	404.	39.3N	121.2W	366	25 E 24 050
0062222	89D101	3.6	332.	37.2N	119.6W	518	25 C 41 050
0062223	90C409	8.2	611.	37.1N	119.3W	732	25 E 24 050
0062224	100A203	7.6	531.	36.9N	119.2W	549	25 J 47 050
0062225	29D303	17.8	1164.	40.1N	123.7W	732	25 I 46 624
0062226	47A201	0.0		39.4N	122.7W	1219	25 C 41 663
0062227	60A125	10.7	1044.	38.9N	122.6W	610	25 C 41 624
0062228	61D302	14.5	1273.	38.6N	123.2W	457	25 C 41 663
0062229	100A213	5.0	387.	36.9N	119.2W	975	25 J 47 10X
0062230	100B111	3.2	330.	36.9N	119.3W	457	25 J 47 10X
0062231	32A402	3.1	323.	40.3N	122.1W	274	25 C 41 359
0062232	33B412	4.2	384.	40.3N	121.8W	671	25 C 41 359
0062233	40C11A	2.8	286.	39.7N	121.8W		25 I 46

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0062234	40C11B	3.2	241.	39.7N	121.8W	25	I 46	
0062235	40C11C	3.9	407.	39.7N	121.8W	25	I 46	
0062236	79A303	7.2	651.	37.8N	120.7W	152	25	C 41 332
0062237	79A401	3.2	319.	37.8N	120.6W	335	25	C 41
0062238	79A402	3.1	364.	37.8N	120.6W	305	25	C 41
0062239	33B417	13.9	806.	40.3N	121.8W	914	25	E 24 359
0062240	69B302	13.9	949.	38.3N	120.4W	975	25	E 24 359
0062241	79A107	11.7	929.	37.9N	120.6W	335	25	J 47
0062242	112D209	12.7	761.	36.2N	118.7W	914	25	I 46 040
0062243	50A396	12.6	581.	39.3N	121.2W	488	25	E 27 050
0062244	50B107	8.3	744.	39.4N	121.3W		25	I 46
0062245	50B210	9.5	675.	39.4N	121.4W	305	25	J 47 050
0062246	50B402	11.7	472.	39.3N	121.3W	335	25	E 27
0062247	32A106	4.4	396.	40.4N	122.1W	335	25	C 41 400
0062248	50A303	8.4	405.	39.3N	121.2W	549	25	E 27 10X
0062249	68D202	6.6	707.	38.2N	120.7W	640	25	J 47 044
0062250	39C309	12.6	690.	39.6N	121.4W	457	25	E 24 10X
0062251	50A309	13.4	778.	39.3N	121.2W	488	25	J 47 10X
0062252	68A408	12.4	650.	38.3N	120.6W		25	I 46
0062253	50A302	15.3	445.	39.3N	121.2W	579	25	E 27 10X
0062254	50B101	4.0	148.	39.4N	121.3W	2713	25	K 24 10X
0062255	50B112	12.6	525.	39.4N	121.3W	488	25	I 46 102
0062256	42A210	5.6	282.	39.9N	122.7W	853	25	D 24 21X
0062257	42D108	7.7	524.	39.7N	122.6W	549	25	I 46 21X
0062258	60A423	9.5	569.	38.8N	122.6W	335	25	E 24 21X
0062259	33D206	4.7	417.	40.2N	121.7W	1189	25	I 46 359
0062260	69B303	3.5	280.	38.3N	120.4W	1036	25	I 46 359
0062261	69B401	3.7	328.	38.3N	120.3W	1341	25	I 46 359
0062262	69C202	7.4	519.	38.2N	120.4W	1006	25	E 24 359
0062263	60A235	7.6	326.	38.9N	122.7W	549	25	I 46 352
0062264	24D112	1.3	391.	40.7N	122.6W	396	25	I 46 300
0062265	60D201	11.3	263.	38.7N	122.7W	1219	25	I 46 30X
0062266	60D207	10.7	482.	38.7N	122.7W	488	25	J 26 30X
0062267	69C302	2.0	198.	38.1N	120.4W	610	25	I 46 338
0062268	9A101	12.5	692.	41.9N	124.1W	640	25	J 26 20X
0062269	44A203	0.0	1383.	39.9N	123.7W	1219	25	D 27 20X
0062270	24D103	8.8	360.	40.7N	122.6W	457	25	I 46 696
0062271	42A209	6.3	301.	39.9N	122.7W	914	25	I 46 696
0062272	47A401	0.0		39.3N	122.6W	0610	25	C 41 696
0062273	60C101	3.2	365.	38.7N	122.8W	427	25	J 26 696
0062274	60C203	10.1	622.	38.7N	122.9W	305	25	J 26 109
0062275	24D404	5.6	278.	40.6N	122.6W	427	25	J 26 696
0062276	31B314	7.2	422.	40.3N	122.9W	975	25	I 46 696
0062277	47A204	3.9	322.	39.4N	122.7W	671	25	I 46 696
0062278	90C303	9.1	590.	37.1N	119.4W	823	25	E 24 05X
0062279	100A204	13.7	818.	36.9N	119.2W	640	25	I 46 05X
0062280	112D201	9.1	431.	36.2N	118.7W	1859	25	I 46
0062281	47A203	8.3	369.	39.4N	122.7W	1219	25	D 22 696
0062282	112A307	15.8	610.	36.3N	118.7W	1890	25	D 22
0062283	11B201	15.6	1053.	41.4N	123.9W	366	25	E 27 50X

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0062284	11B306	15.3	847.	41.3N	123.9W	305	25 E 27 500
0062285	11D101	8.9	525.	41.2N	123.6W	1158	25 D 22 612
0062286	24A403	11.8	1098.	40.8N	122.6W		25 D 22
0062287	26C204	16.4	748.	40.7N	123.9W	549	25 E 27 500
0062288	28A213	21.4	1135.	40.4N	124.2W	732	25 E 27 500
0062289	61D304	11.7	630.	38.6N	123.2W	396	25 E 27 500
0062290	10D104	28.2	1127.	41.2N	124.1W	396	25 E 27 620
0062291	9D401	29.5	1330.	41.6N	124.1W	274	25 E 27 500
0062292	9D402	38.6	1972.	41.6N	124.1W	91	25 E 27 500
0062293	11B202	22.1	972.	41.4N	123.9W	396	25 E 27 50X
0062294	11B302	20.0	794.	41.3N	123.9W	122	25 E 27 50X
0062295	24C301	11.8	741.	40.6N	122.9W		25 D 22
0062296	29A320	10.8	728.	40.3N	123.7W	427	25 E 27 50X
0062297	42A204	8.6	305.	39.9N	122.7W	1311	25 D 22 62X
0062298	42D301	30.3	566.	39.6N	122.7W	853	25 E 27 62X
0062299	47B302	19.4	771.	39.3N	122.9W	1128	25 D 22 510
0062300	61D107	8.1	742.	38.7N	123.1W	244	25 E 27 500
0062301	61D305	14.1	662.	38.6N	123.2W	244	25 E 27 50X
0062302	68A401	19.4	590.	38.3N	120.6W	853	25 E 27 62X
0062303	10D105	23.2	847.	41.2N	124.1W	366	25 E 27 620
0062304	11B309	23.7	1116.	41.3N	123.9W	457	25 E 27 50X
0062305	26B109	26.8	1030.	40.9N	123.8W	701	25 E 27 620
0062306	26B413	24.6	1109.	40.8N	123.8W	1219	25 D 22 620
0062307	39D203	25.2	822.	39.7N	121.2W		25 D 22
0062308	39D309	20.0	695.	39.6N	121.2W	1006	25 E 27 20X
0062309	42D202	9.8	956.	39.7N	122.7W	853	25 I 46 62X
0062310	50A201	16.9	710.	39.4N	121.2W	823	25 E 27 62X
0062311	50A203	16.3	624.	39.4N	121.2W	945	25 E 27 62X
0062312	50A204	16.7	777.	39.4N	121.2W	762	25 E 27 20X
0062313	68A402	15.4	538.	38.3N	120.6W	823	25 E 27 62X
0062314	100A206	16.8	758.	36.9N	119.2W	1433	25 J 26 62X
0062315	44B408	27.7	1802.	39.8N	123.8W	91	25 C 41 500
0062316	26C215	17.5	1032.	40.7N	123.9W	701	25 E 27 5XX
0062317	43C112	33.2	1623.	39.7N	123.3W	1219	25 D 22 5XX
0062318	11D302	2.6	151.	41.1N	123.7W	762	25 E 27 620
0062319	24A405	7.8	793.	40.8N	122.6W		25 D 22
0062320	42A206	4.1	304.	39.9N	122.7W	1524	25 D 22 62X
0062321	42D201	7.8	605.	39.7N	122.7W	1189	25 D 22 62X
0062322	47A205	13.2	657.	39.4N	122.7W	1829	25 D 22 62X
0062323	112D205	17.8	588.	36.2N	118.7W	1890	25 D 22
0062324	10D110	16.3	1129.	41.2N	124.1W	366	25 E 27 620
0062325	11C308	14.3	1199.	41.1N	123.9W	457	25 E 27 620
0062326	11D401	9.1	831.	41.1N	123.6W	884	25 E 27 620
0062327	42B102	13.0	727.	39.9N	122.8W	1890	25 D 22 62X
0062328	42C102	19.1	945.	39.7N	122.8W	1829	25 D 22 62X
0062329	100A102	12.9	446.	36.9N	119.1W	2073	25 D 22 62X
0062330	29A214	12.5	800.	40.4N	123.7W	914	25 E 27 50X
0062331	31C408	6.8	337.	40.1N	122.8W	2042	25 D 22 50X
0062332	27A416	15.5	904.	40.8N	124.1W	305	25 E 27 663
0062333	28A223	21.7	1751.	40.4N	124.2W	427	25 E 27 663

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
0062334	69B201	13.4	415.	38.4N	120.4W	884	25	E	27	623
0062335	112D208	16.2	583.	36.2N	118.7W	2012	25	D	22	
0062336	31C407	3.2	236.	40.1N	122.8W	2134	25	D	22	62X
0062337	11B207	22.0	733.	41.4N	123.9W	732	25	E	24	50X
0062338	23A402	9.5	637.	40.8N	122.1W	518	25	E	27	510
0062339	39D306	13.1	670.	39.6N	121.2W		25	D	22	
0062340	39D307	14.9	588.	39.6N	121.2W	792	25	E	27	62X
0062341	69B212	14.9	648.	38.4N	120.4W	1097	25	D	22	510
0062342	69B301	11.2	684.	38.3N	120.4W	732	25	E	27	62X
0062343	69C201	13.4	555.	38.2N	120.4W	640	25	E	27	610
0062344	69B402	9.6	321.	38.3N	120.3W	1585	25	D	22	62X
0062345	69C103	13.8	788.	38.2N	120.3W	975	25	E	27	620
0062346	68D204	9.3	1026.	38.2N	120.7W	305	25	J	47	510
0062347	68D404	8.5	1195.	38.1N	120.6W	366	25	C	41	612
0062348	68D406	10.5	1068.	38.1N	120.6W	396	25	J	47	610
0062349	68D408	10.4	882.	38.1N	120.6W	427	25	J	47	610
0062350	24C305	2.7	230.	40.6N	122.9W		25	I	46	
0062351	59B205	13.7	1093.	38.9N	122.4W	762	25	C	41	510
0062352	26C119	22.9	1777.	40.7N	123.8W	610	25	I	46	62X
0062353	42B301	12.6	1617.	39.8N	122.9W	1920	25	C	41	62X
0062354	42B401	5.6	535.	39.8N	122.8W	914	25	C	41	62X
0062355	42B402	6.9	736.	39.8N	122.8W	914	25	C	41	62X
0062356	28A210	24.0	1683.	40.4N	124.2W	427	25	I	30	500
0062357	63A402	22.4	1792.	38.3N	123.1W	152	25	C	41	500
0062358	31D223	9.7	1256.	40.2N	122.7W	457	25	C	41	5XX
0062359	42D413	3.0	427.	39.6N	122.6W	610	25	J	47	510
0062360	31D219	5.0	584.	40.2N	122.7W	366	25	C	41	5XX
0062361	41C312	3.1	385.	39.6N	122.4W	213	25	C	41	5XX
0062362	42A401	3.3	333.	39.8N	122.6W	305	25	J	47	58X
0062363	31A214	11.3	1324.	40.4N	122.7W	335	25	C	41	510
0062364	31D220	9.8	1181.	40.2N	122.7W	457	25	C	41	5XX
0062365	41B322	7.6	721.	39.8N	122.4W	244	25	J	47	5XX
0062366	29B412	33.3	2388.	40.3N	123.8W	427	25	C	41	50X
0062367	28A415	28.3	2213.	40.3N	124.1W	762	25	E	27	500
0062368	28A416	26.0	2000.	40.3N	124.1W	792	25	C	40	500
0062369	47D311	6.4	650.	39.1N	122.7W	488	25	J	47	50X
0062370	48B207	13.4	1147.	39.4N	122.4W	488	25	J	47	50X
0062371	31A205	8.9	524.	40.4N	122.7W	549	25	J	47	62X
0062372	31D226	6.9	574.	40.2N	122.7W	732	25	I	46	580
0062373	47A105	6.5	628.	39.4N	122.6W	792	25	I	46	50X
0062374	31D222	8.1	567.	40.2N	122.7W	579	25	J	47	510
0062375	42D111	1.7	199.	39.7N	122.6W	244	25	C	41	510
0062376	60A233	10.7	778.	38.9N	122.7W	518	25	C	41	5XX
0062377	26B105	14.3	1364.	40.9N	123.8W	640	25	C	40	50X
0062378	29C401	12.6	1008.	40.1N	123.8W	610	25	C	40	500
0062379	61D303	9.0	778.	38.6N	123.2W	427	25	C	41	500
0062380	26B103	25.0	1966.	40.9N	123.8W	1036	25	D	25	50X
0062381	26B116	21.3	1784.	40.9N	123.8W	1006	25	D	25	500
0062382	42A304	16.2	1123.	39.8N	122.7W	1067	25	J	26	62X
0062383	60D204	12.3	1399.	38.7N	122.7W	274	25	C	41	500

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0062384	61D301	10.1	1178.	38.6N	123.2W	244	25 C 41 500
0062385	100A208	8.0	680.	36.9N	119.2W	335	25 J 47 620
0062386	100A218	4.4	386.	36.9N	119.2W	366	25 E 24 620
0062387	28B102	29.1	2365.	40.4N	124.3W	152	25 C 40 663
0062388	47A202	5.6	635.	39.4N	122.7W	914	25 C 41 50X
0062389	100A211	9.1	818.	36.9N	119.2W	1036	25 C 41 62X
0062390	26C201	34.1	2193.	40.7N	123.9W	914	25 C 58 500
0062391	26C203	31.4	2088.	40.7N	123.9W	610	25 C 58 510
0062392	28A224	26.9	2148.	40.4N	124.2W	610	25 C 58 50X
0062393	68D301	6.6	761.	38.1N	120.7W	366	25 J 47 61X
0062394	79A204	5.7	1172.	37.9N	120.7W	274	25 J 47 61X
0062395	31A117	5.9	781.	40.4N	122.6W		25 I 46
0062396	31D221	13.4	1420.	40.2N	122.7W	457	25 I 46 510
0062397	41C402	10.7	1115.	39.6N	122.3W	152	25 C 41 510
0062398	23A401	7.4	701.	40.8N	122.1W	488	25 J 47 520
0062399	31D227	5.9	509.	40.2N	122.7W	610	25 I 46 50X
0062400	42D109	4.2	625.	39.7N	122.6W	701	25 I 46 62X
0062401	68D205	8.0	813.	38.2N	120.7W	579	25 I 46 61X
0062402	24A406	5.2	402.	40.8N	122.6W		25 I 46
0062403	31D228	3.0	234.	40.2N	122.7W	640	25 I 46 510
0062404	42D414	4.7	383.	39.6N	122.6W	610	25 I 46 62X
0062405	47B301	4.1	222.	39.3N	122.9W	1067	25 I 46 62X
0062406	79A102	9.3	1197.	37.9N	120.6W	152	25 I 46 61X
0062407	24A407	5.9	318.	40.8N	122.6W		25 I 46
0062408	45D401	31.7	2244.	39.1N	123.6W	823	25 I 46 500
0062409	90D204	5.8	351.	37.2N	119.2W	2195	25 D 22 599
0062410	24C204	9.7	428.	40.7N	122.9W		25 D 22
0062411	33B104	6.0	328.	40.4N	121.8W	1158	25 D 22 308
0062412	33B103	7.6	399.	40.4N	121.8W	1067	25 E 27 348
0062413	90D401	14.5	620.	37.1N	119.1W	2195	25 D 22 599
0062414	91C301	10.8	431.	37.1N	118.9W	2530	25 D 22 599
0062415	27A417	18.7	1327.	40.8N	124.1W	91	25 E 27 70X
0062416	27D113	38.7	2340.	40.7N	124.1W	488	25 E 27 511
0062417	29B211	16.9	872.	40.4N	123.9W	213	25 E 27 70X
0062418	10D402	12.6	499.	41.1N	124.1W	366	25 E 27 70X
0062419	45A301	17.0	691.	39.3N	123.7W	183	25 C 41 50X
0062420	61C403	13.4	734.	38.6N	123.3W	305	25 E 27 70X
0062421	10D401	17.7	929.	41.1N	124.1W	213	25 E 27 70X
0062422	61C401	12.1	476.	38.6N	123.3W	91	25 E 27 70X
0062423	90B403	5.0	241.	37.3N	119.3W	1585	25 D 22 599
0062424	9A402	36.6	1869.	41.8N	124.1W	122	25 E 27 75X
0062425	27A401	21.2	1133.	40.8N	124.1W	152	25 E 27 70X
0062426	61C101	15.2	982.	38.7N	123.3W	335	25 E 27 70X
0062427	26C321	24.4	1306.	40.6N	123.9W	366	25 E 27 70X
0062428	27A101	28.2	1344.	40.9N	124.1W	152	25 E 27 70X
0062429	27C401	21.5	1394.	40.6N	124.3W	91	25 E 27 70X
0062430	90D304	8.4	350.	37.1N	119.2W	1768	25 D 22 599
0062431	34B309	16.3	725.	40.3N	121.4W	1829	25 D 22 597
0062432	22B202	24.9	1099.	40.9N	121.9W	914	25 E 27 70X
0062433	61C102	7.8	573.	38.7N	123.3W	213	25 E 27 70X

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON	NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
		KG/M**2	G/M**2					A	B	C
0062434	24C105	9.7	660.	40.7N	122.8W	671	25	E	27	75X
0062435	9D101	14.3	617.	41.7N	124.1W	671	25	E	27	75X
0062436	69C104	10.1	833.	38.2N	120.3W	427	25	C	41	61X
0062437	27C414	36.7	2756.	40.6N	124.3W	244	25	E	27	71X
0062438	15C301	7.3	468.	41.1N	121.9W	579	25	J	26	707
0062439	22C301	6.5	389.	40.6N	121.9W	518	25	J	47	50X
0062440	31D121	3.1	638.	40.2N	122.6W	274	25	J	47	75X
0062441	41B407	4.9	456.	39.8N	122.3W	152	25	I	46	75X
0062442	50B212	5.8	516.	39.4N	121.4W		25	I	46	
0062443	31D119	4.5	991.	40.2N	122.6W	274	25	C	41	71X
0062444	41A101	6.4	669.	39.9N	122.1W	61	25	J	47	308
0062445	40D201	2.1	255.	39.7N	121.7W		25	I	46	
0062446	68C102	4.2	278.	38.2N	120.8W		25	I	46	
0062447	33A317	6.2	515.	40.3N	121.7W	122	25	I	46	308
0062448	79A104	10.5	1098.	37.9N	120.6W	213	25	C	41	358
0062449	47D420	7.5	869.	39.1N	122.6W	427	25	J	47	75X
0062450	60A108	4.2	494.	38.9N	122.6W	579	25	C	41	75X
0062451	32A203	2.2	199.	40.4N	122.2W	183	25	C	41	75X
0062452	32A316	5.8	505.	40.3N	122.2W	183	25	J	47	75X
0062453	68C101	16.2	1246.	38.2N	120.8W		25	I	46	
0062454	28B401	28.8	2381.	40.3N	124.3W	122	25	C	40	71X
0062455	40D411	2.7	253.	39.6N	121.6W	152	25	C	41	50X
0062456	32B201	3.3	424.	40.4N	122.4W		25	I	46	
0062457	32C311	10.2	1356.	40.1N	122.4W	183	25	I	46	7XX
0062458	41C101	8.0	1214.	39.7N	122.3W	91	25	C	41	7XX
0062459	41C401	10.0	1218.	39.6N	122.3W	61	25	C	41	72X
0062460	47D437	3.4	269.	39.1N	122.6W	457	25	I	31	75X
0062461	60A225	14.4	705.	38.9N	122.7W	457	25	I	46	357
0062462	41C403	10.0	1255.	39.6N	122.3W	91	25	C	41	72X
0062463	48B101	16.4	1392.	39.4N	122.3W	183	25	C	41	72X
0062464	41B405	4.8	1304.	39.8N	122.3W	122	25	I	46	70X
0062465	48B102	8.3	1040.	39.4N	122.3W	152	25	C	41	72X
0063001	6C301	23.6	546.	41.6N	122.9W	1402	25	E	24	6XX
0063002	15D402	13.7	857.	41.1N	121.6W	1006	25	E	27	4XX
0063003	68C201	7.0	660.	38.2N	120.9W	122	25	J	47	7XX
0063004	40B301	4.3	470.	39.8N	121.9W	61	25	C	41	585
0063005	15D101	13.8	567.	41.2N	121.6W	1128	25	E	24	400
0063006	15D102	15.4	627.	41.2N	121.6W	1006	25	E	27	400
0063007	68A410	11.3	493.	38.3N	120.6W	518	25	E	27	10X
0063008	24C107	4.2	326.	40.7N	122.8W	884	25	E	27	050
0063009	39B302	6.9	304.	39.8N	121.4W	1128	25	D	22	05X
0063010	39C101	15.8	718.	39.7N	121.3W	1067	25	E	27	050
0063011	40A204	13.7	585.	39.9N	121.7W	945	25	E	27	3XX
0063012	14C109	17.5	349.	41.2N	122.3W	1402	25	D	22	10X
0063014	14C107	10.2	422.	41.2N	122.3W	914	25	E	27	10X
0063015	22A108	10.4	589.	40.9N	121.6W	975	25	E	27	400
0063016	50B110	20.0	684.	39.4N	121.3W	671	25	E	27	696
0063017	68A409	17.8	780.	38.3N	120.6W	701	25	E	27	10X
0063018	40A104	23.1	754.	39.9N	121.6W	975	25	E	27	10X
0063019	14B402	20.3	1193.	41.3N	122.3W	1006	25	E	27	3XX

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0063020	40A203	14.8	879.	39.9N	121.7W	1097	25 D 22 3XX
0063021	14B401	17.5	772.	41.3N	122.3W	945	25 I 46 3XX
0063022	14B403	19.4	1002.	41.3N	122.3W	1158	25 D 22 3XX
0063023	14A301	32.1	1949.	41.3N	122.2W	1494	25 I 46 400
0063024	14C106	28.9	840.	41.2N	122.3W	884	25 E 27 10X
0063025	22A203	12.5	625.	40.9N	121.7W	975	25 E 27 400
0063026	14C105	11.3	534.	41.2N	122.3W	884	25 E 27 200
0063027	14C108	8.9	535.	41.2N	122.3W	884	25 E 27 200
0063028	14C111	13.2	602.	41.2N	122.3W	1097	25 D 22 696
0063029	79A406	8.4	623.	37.8N	120.6W	244	25 C 41 696
0063030	78B301	5.5	444.	37.8N	120.4W	366	25 I 46 210
0063031	79A110	7.0	217.	37.9N	120.6W	335	25 I 46 210
0063032	78B205	26.7	1174.	37.9N	120.4W	366	25 I 46 400
0063033	68A407	9.1	500.	38.3N	120.6W	640	25 I 46 10X
0063034	50B109	13.8	806.	39.4N	121.3W	427	25 J 47 050
0063036	78B306	4.9	402.	37.8N	120.4W	305	25 J 47 696
0063037	79A407	6.2	418.	37.8N	120.6W	305	25 C 41 696
0063038	79A405	6.1	501.	37.8N	120.6W	244	25 J 47 696
0063039	68D308	16.7	1015.	38.1N	120.7W	427	25 I 46 210
0063040	78B305	5.7	469.	37.8N	120.4W	396	25 J 47 21X
0063041	78A305	8.5	344.	37.8N	120.2W	701	25 I 46 044
0063042	22A109	11.8	688.	40.9N	121.6W	975	25 J 47 400
0063043	23C301	5.5	604.	40.6N	122.4W	366	25 I 46 05X
0063044	68A408	11.9	771.	38.3N	120.6W	549	25 I 46 10X
0063045	78B104	5.2	586.	37.9N	120.3W	640	25 J 47 044
0063046	78B201	4.0	400.	37.9N	120.4W	549	25 C 41 044
0063047	78B103	2.3	261.	37.9N	120.3W	823	25 I 46 10X
0063048	68D207	5.4	365.	38.2N	120.7W	274	25 I 46 210
0063049	78B206	5.2	222.	37.9N	120.4W	671	25 I 46 62X
0063050	22A105	2.1	220.	40.9N	121.6W	975	25 I 46 400
0063051	68D413	26.2	1243.	38.1N	120.6W	549	25 I 46 696
0063052	24C202	6.7	524.	40.7N	122.9W	640	25 E 27 620
0063053	78A301	15.3	755.	37.8N	120.2W	1128	25 D 22 62X
0063054	24C109	9.0	690.	40.7N	122.8W	640	25 K 27 510
0063055	78A303	8.2	247.	37.8N	120.2W	1036	25 E 24 62X
0063056	7D401	14.3	324.	41.6N	123.1W	1219	25 E 24 6XX
0063057	24C205	9.6	794.	40.7N	122.9W	549	25 E 27 620
0063058	14D201	10.2	627.	41.2N	122.2W	1158	25 D 22 510
0063059	68A303	7.6	495.	38.3N	120.7W	396	25 J 47 62X
0063060	69C206	9.6	548.	38.2N	120.4W	975	25 I 46 62X
0063061	78A302	7.9	250.	37.8N	120.2W	1006	25 E 24 62X
0063062	78A306	6.3	143.	37.8N	120.2W	1158	25 D 22 62X
0063063	68D406	14.6	1549.	38.1N	120.6W	427	25 C 41 5XX
0063064	14C110	18.4	1033.	41.2N	122.3W	1707	25 I 46 696
0063065	68D208	9.3	724.	38.2N	120.7W	427	25 J 47 62X
0063066	78A304	6.9	459.	37.8N	120.2W	914	25 E 24 62X
0063067	78B304	7.1	425.	37.8N	120.4W	366	25 J 47 5XX
0063068	79A209	6.3	551.	37.9N	120.7W	305	25 J 47 5XX
0063069	69C312	5.8	417.	38.1N	120.4W	549	25 C 41 62X
0063070	78B207	3.8	253.	37.9N	120.4W	488	25 J 47 612

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0063071	68A301	5.1	313.	38.3N	120.7W	488	25 I 46 62X
0063072	68A302	7.7	269.	38.3N	120.7W	549	25 I 46 62X
0063073	14A402	45.1	2815.	41.3N	122.1W	1036	25 E 27 7XX
0063074	25D302	7.6	464.	40.6N	123.2W	792	25 E 27 58X
0063075	14B101	12.9	424.	41.4N	122.3W	1189	25 I 46 7XX
0063076	78B204	9.1	486.	37.9N	120.4W	427	25 E 24
0064001	56-AK-3-1	6.4	542.	65.0N	148.0W	0168	8 6 20 764
0064002	56-AK-3-2	9.5	612.	65.0N	147.5W	0244	8 6 20 764
0064003	56-AK-5-2	21.1	1140.	60.5N	150.0W	0091	8 7 20 761
0064004	56-AK-6-1	35.3	2887.	60.1N	151.5W	61	8 4 20 761
0064005	56-AK-6-2	33.6	2455.	60.0N	151.6W	0046	8 4 20 761
0064006	56-AK-6-3	22.7	1316.	60.1N	151.5W		8 4 20 761
0064007	56-AK-7-1	23.8	1159.	61.8N	149.5W	0046	8 7 20 761
0064008	56-AK-7-2	33.5	1402.	61.7N	148.5W	0061	8 7 20 761
0064009	56-AK-7-3	20.8	699.	61.6N	149.5W	0046	8 7 20 761
0064010	56-AK-7-4	17.0	612.	61.7N	149.5W	0130	8 7 20 761
0064011	56-AK-9-1	19.7	686.	61.6N	148.6W	0091	8 7 20 761
0064012	56-AK-9-2	17.8	668.	61.5N	148.6W	0099	8 7 20 767
0064013	52-AK-41-1	10.5		61.7N	147.1W	0762	8 7 20 763
0064014	52-AK-45-2	5.7		61.7N	147.1W	0762	8 7 20 763
0064015	57-AK-5-4	13.9	371.	60.5N	151.2W	0061	8 7 20 761
0064016	59-AK-54-4	14.5	1320.	62.3N	150.4W	0137	8 7 20 593
0064017	59-AK-8-1	5.3	316.	64.5N	149.0W	0320	8 7 20 764
0064018	59-AK-8-2	7.2	406.	64.5N	149.0W	0335	8 7 20 764
0064019	60-AK-4-1	29.5	1026.	59.7N	151.5W	0091	8 9 22 763
0064020	60-AK-4-2	25.7	387.	59.7N	151.5W	0046	8 9 22 763
0064021	60-AK-5-1	10.4	257.	60.5N	151.2W	0061	8 7 20 761
0064022	62-AK-0-1	8.1	286.	55.4N	132.7W	0099	8 9 22 583
0064023	62-AK-0-2	35.1	1061.	55.4N	132.7W	0091	8 9 22 583
0064024	67-AK-58-2	15.0	469.	60.0N	154.8W	0107	8 8 20 762
0064025	69-AK-56-1	32.0	1838.	58.7N	156.7W	0023	8 8 20 762
0064026	69-AK-56-2	19.4	1040.	58.7N	156.8W	0015	8 8 20 762
0064027	59-AK-51-1	13.7	849.	64.8N	141.0W	229.	8 7 20 765
0064028	59-AK-51-2	16.5	1157.	65.8N	144.4W	0290	8 6 20 765
0064029	59-AK-51-3	18.3	799.	65.9N	144.4W	0290	8 6 20 765
0064030	60-AK-60-2	16.9	713.	62.4N	150.0W	0183	8 7 20 761
0064031	62-AK-56-1	10.5	751.	58.9N	162.0W	0107	8 3 63 510
0064032	62-AK-56-3	19.5	1272.	61.9N	166.0W	0091	8 3 63 000
0064033	57-AK-5-14	20.1	831.	60.6N	151.0W		8 7 20 595
0064034	57-AK-5-18	18.7	849.	60.5N	151.0W		8 7 20 593
0064035	59-AK-3-1	7.5	536.	64.8N	147.5W	259.	8 6 20 764
0064036	59-AK-3-2	8.6	457.	64.6N	148.0W	0259	8 6 20 764
0064037	59-AK-3-3	7.2	480.	65.0N	147.8W	0168	8 6 20 764
0064038	60-AK-3-1	7.3	466.	64.6N	148.0W	0259	8 6 20 764
0064039	60-AK-4-3	33.7	1161.	59.6N	151.5W	0335	8 9 20 763
0064040	60-AK-4-4	28.8	1114.	59.6N	151.5W	0320	8 9 20 763
0064041	60-AK-60-1	15.5	882.	62.5N	150.0W	0152	8 7 20 761
0064042	67-AK-58-1	22.4	1304.	59.1N	158.6W	0046	8 8 20 763
0064043	69-AK-54-3	13.3	1075.	62.3N	150.4W	0137	8 7 20 762
0064044	52-AK-103-10	10.1		61.8N	146.3W	0853	8 7 63 583

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0064045	52-AK-105-11	5.3	61.7N	146.5W	0549	8	7 63 761
0064046	52-AK-106-12	3.5	61.7N	146.5W	0549	8	7 63 763
0064047	52-AK-108-13	15.9	61.7N	146.5W	0610	8	3 63 763
0064048	52-AK-114-14	25.1	61.8N	146.5W	0549	8	3 63 594
0064049	56-AK-7-1	24.4	1187.	61.8N	149.5W	46	8 7 20 761
0064050	57-AK-5-2	23.2	703.	60.6N	151.4W	0046	8 7 20 761
0064051	57-AK-5-20	15.1	435.	60.6N	151.4W	0046	8 7 20 761
0064052	58-AK-3-1	34.1	1461.	64.8N	147.6W		8 7 20 761
0064053	58-AK-3-2	15.1	773.	65.0N	147.9W		8 7 20 761
0064054	62-AK-0-3	4.8	173.	55.4N	132.7W	0091	8 9 22 583
0064055	62-AK-0-4	8.1	375.	55.4N	132.7W	0091	8 9 22 583
0064056	62-AK-0-5	24.3	1274.	55.4N	132.7W	0046	8 9 22 510
0064057	62-AK-0-6	10.6	414.	55.4N	132.7W	0076	8 9 22 626
0064058	62-AK-0-7	23.8	1362.	55.4N	132.8W	0732	8 9 22 325
0064059	62-AK-0-8	41.7	1489.	55.4N	132.7W	0762	8 9 22 341
0064060	62-AK-56-2	12.0	757.	60.5N	165.5W	0091	8 3 63 400
0064061	62-AK-56-4	59.8	2822.	63.9N	161.0W	0183	8 3 20 510
0064062	67-AK-51-2	35.9	994.	57.2N	135.7W	0138	8 9 22 326
0064063	67-AK-52-1	34.7	1411.	60.2N	149.4W	0122	8 9 22 583
0064064	67-AK-52-2	39.1	1350.	60.4N	145.2W	0030	8 9 22 761
0064065	67-AK-52-3	8.0	336.	61.1N	145.8W	0259	8 3 63 610
0064066	67-AK-56-1	42.3	2434.	57.1N	153.7W	0122	8 3 63 762
0064067	67-AK-56-2	13.5	1137.	56.8N	157.9W	0061	8 3 53 762
0064068	69-AK-54-1	70.4	4004.	62.0N	150.2W	0061	8 7 20 596
0064069	69-AK-54-2	59.6	3347.	62.0N	151.2W	0061	8 7 20 596
0064070	69-AK-55-1	16.5	776.	62.1N	152.8W	0762	8 7 63 762
0064071	69-AK-58-2	66.2	3486.	59.9N	159.0W	0091	8 3 63 762
0065001	1.01 NH	19.4	793.	44.3N	71.7W	610	23 D 23
0065002	1.02 NH	19.0	874.	44.3N	71.7W	610	23 D 23
0065003	1.03 NH	22.9	1022.	44.3N	71.7W	625	23 D 23
0065004	1.04 NH	25.2	883.	43.9N	71.5W	610	23 D 23
0065005	1.05 NH	8.1	241.	43.9N	71.5W	700	23 D 23
0065006	1.06 CT	14.9	394.	42.0N	72.1W	300	23 D 23
0065007	1.07 CT	4.0	182.	41.5N	71.8W	150	23 D 23
0065008	1.08 CT	9.8	366.	41.3N	72.9W	060	23 D 23
0065009	1.09 CT	8.1	195.	41.8N	72.0W	150	23 ? 23
0065010	1.11 CT	5.1	221.	41.6N	72.5W	060	23 D 23
0065012	1.13 CT	10.2		41.4N	73.0W	150	23 D 23
0065013	1.14 CT	10.2	456.	41.4N	72.4W	060	23 D 23
0065014	1.15 CT	10.4	543.	41.3N	73.0W	060	23 ? 22
0065016	1.18 CT	5.2	183.	41.9N	72.7W	060	23 D 22
0065017	1.20 CT	6.8	134.	41.4N	72.5W	060	23 ? 23
0065018	1.21 NH	28.4	1885.	44.3N	71.7W	360	23 ? 23
0065019	1.22 CT	19.8		41.4N	72.0W	030	23 ? 23
0065021	1.23 CT	19.5	1189.	41.5N	73.1W	150	23 ? 22
0065022	1.24 CT	10.0	479.	41.5N	72.4W	060	23 ? 23
0065023	1.31 CT	12.0	589.	41.9N	72.1W	150	23 ? 23
0065024	1.35 CT	9.5		42.0N	73.2W	300	23 ? 55
0065025	3.01 NH	16.2		43.9N	71.5W	670	23 D 23
0065026	3.02 NH	20.8		42.9N	72.3W	180	23 D 22

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON		LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2	NITROGEN G/M**2					A	B	C
0065027	3.03	NH	25.8	42.9N	72.3W	180	23	D	22
0065028	3.05	CT	7.9	42.0N	73.2W	300	23	D	23
0065029	3.06	CT	6.1	41.3N	72.9W	060	23	D	23
0065030	3.12	CT	9.6	41.3N	72.9W	060	23	D	22
0065031	3.13	CT	10.4	41.4N	73.0W	150	23	D	22
0065032	3.15	CT	9.6	41.4N	73.0W	150	23	D	22
0065033	3.16	CT	10.8	41.5N	73.1W	150	23	D	22
0066001	2.01	IL	4.4	41.5N	90.2W	350	22	?	40
0066002	2.02	IL	16.2	41.5N	90.2W	350	22	?	40
0066003	2.03	IL	10.1	41.5N	90.2W	350	22	?	40
0066004	2.04	IL	10.2	41.3N	89.5W	350	22	?	40
0066005	2.05	IL	5.5	42.2N	89.2W	350	22	?	40
0066006	2.06	IL	16.3	41.9N	89.0W	350	22	?	40
0066007	2.07	IL	12.3	42.2N	89.2W	350	22	?	40
0066008	2.08	IL	18.9	42.2N	89.2W	350	22	?	40
0066009	2.09	IL	16.9	42.2N	89.2W	350	22	?	40
0066010	2.10	IL	14.3	41.9N	89.0W	350	22	?	40
0066011	2.11	IL	15.1	41.7N	89.0W	350	22	?	40
0066012	2.12	IL	12.6	41.7N	89.0W	350	22	?	40
0066013	3.01	IA	17.1	41.7N	91.9W	350	22	?	40
0066014	3.02	IA	9.7	42.5N	91.9W	350	22	?	40
0066015	3.03	IA	10.9	42.2N	92.0W	350	22	?	40
0066016	3.04	IA	4.2	42.2N	92.0W	350	22	?	40
0066017	3.05	IA	12.1	42.2N	92.5W	350	22	?	40
0066018	3.06	IA	9.2	42.5N	94.2W	350	22	?	40
0066019	3.07	IA	14.2	42.7N	94.2W	350	22	?	40
0066020	3.08	IA	7.1	42.2N	92.0W	350	22	D	25
0066021	3.09	IA	6.7	42.2N	90.5W	350	22	?	40
0066022	3.10	IA	8.9	42.3N	90.4W	350	22	?	40
0066023	3.11	IA	7.0	42.5N	91.9W	350	22	?	40
0066024	3.12	IA	5.2	42.3N	90.4W	350	22	?	40
0066025	3.13	IA	10.5	42.3N	90.4W	350	22	?	40
0066026	3.14	IA	11.3	42.7N	94.2W	350	22	C	55
0066027	3.15	IA	8.5	41.7N	94.9W	350	22	?	40
0066028	3.16	IA	7.8	42.2N	90.5W	350	22	?	40
0066029	3.17	IA	10.4	42.2N	92.5W	350	22	?	40
0066030	3.18	IA	15.5	41.7N	93.0W	350	22	?	40
0066031	3.19	IA	17.9	43.1N	91.2W	350	22	?	40
0066032	3.20	IA	16.3	41.7N	91.9W	350	22	?	40
0066033	3.21	IA	14.1	42.0N	94.4W	350	22	?	55
0066034	3.22	IA	3.9	41.7N	91.9W	350	22	?	40
0066035	3.23	IA	15.6	41.4N	93.6W	350	22	?	40
0066036	3.24	IA	14.7	41.3N	94.0W	350	22	?	40
0066037	3.25	IA	14.1	41.4N	93.6W	350	22	?	40
0066038	3.26	IA	11.6	41.3N	94.0W	350	22	?	40
0066039	3.27	IA	6.6	41.3N	94.5W	350	22	?	40
0066040	3.28	IA	2.1	41.4N	95.0W	350	22	?	40
0066041	3.29	IA	8.2	42.0N	94.4W	350	22	?	55
0066042	3.30	IA	14.3	42.2N	92.0W	350	22	?	40
0066043	3.31	IA	14.0	42.2N	92.5W	350	22	?	40

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0066044	3.32 IA	4.7		41.3N	94.5W	350	22	? 40
0066045	3.33 IA	11.8		41.7N	94.9W	350	22	? 40
0066046	3.34 IA	17.1		42.2N	92.5W	350	22	? 40
0066047	3.35 IA	17.6		41.7N	93.0W	350	22	? 40
0066048	3.36 IA	15.3		41.3N	94.5W	350	22	? 40
0066049	3.37 IA	13.8		41.7N	94.9W	350	22	? 40
0066050	3.38 IA	4.2		41.4N	95.0W	350	22	? 40
0066051	3.39 IA	14.6		42.0N	94.4W	350	22	? 40
0066052	3.40 IA	15.4		42.5N	94.2W	350	22	? 40
0066053	3.41 IA	8.5		43.3N	93.6W	350	22	? 40
0066054	3.42 IA	14.0		41.3N	94.0W	350	22	? 40
0066055	3.43 IA	13.2		43.1N	91.2W	350	22	? 40
0066056	4.01 MN	8.8		45.7N	93.6W	350	22	? 40
0066057	4.02 MN	6.8		46.0N	92.9W	350	22	C 55
0066058	4.03 MN	9.8		46.3N	96.1W	350	22	? 40
0066059	4.04 MN	10.9		46.3N	96.1W	350	22	? 40
0066060	4.05 MN	10.7		44.1N	93.5W	350	22	? 40
0066061	4.06 MN	13.4		45.6N	95.9W	350	22	? 40
0066062	4.07 MN	7.5		42.2N	95.8W	350	22	D 25
0066063	4.08 MN	6.4		43.6N	91.5W	350	22	? 40
0066064	4.09 MN	5.3		44.6N	93.1W	350	22	? 40
0066065	4.10 MN	7.4		46.1N	96.4W	350	22	? 40
0066066	4.11 MN	16.5		45.6N	95.9W	350	22	? 40
0066067	4.12 MN	6.0		43.6N	91.5W	350	22	? 40
0066068	4.13 MN	10.9		46.0N	92.9W	350	22	? 40
0066069	4.14 MN	6.4		45.9N	93.3W	350	22	? 40
0066070	4.15 MN	9.5		46.1N	96.4W	350	22	? 40
0066071	4.16 MN	8.5		46.9N	95.1W	350	22	? 40
0066072	4.17 MN	10.0		46.9N	95.1W	350	22	? 40
0066073	4.18 MN	17.7		44.6N	93.1W	350	22	? 40
0066074	4.19 MN	2.8		46.9N	95.1W	350	22	D 22
0066075	4.20 MN	4.7		46.0N	92.9W	350	22	? 40
0066076	4.21 MN	10.4		45.9N	93.3W	350	22	? 40
0066077	4.22 MN	4.7		45.7N	95.6W	350	22	? 40
0066078	4.23 MN	4.8		42.2N	95.8W	350	22	? 40
0066079	4.24 MN	5.0		45.7N	93.6W	350	22	? 40
0066080	4.25 MN	8.3		45.9N	93.3W	350	22	? 40
0066081	4.26 MN	5.5		46.0N	92.9W	350	22	? 40
0066082	4.27 MN	5.7		42.2N	95.8W	350	22	D 25
0066083	4.28 MN	7.9		46.9N	95.1W	350	22	? 40
0066084	4.29 MN	12.9		45.6N	93.9W	350	22	? 40
0066085	4.30 MN	11.7		46.8N	95.9W	350	22	D 25
0066086	4.31 MN	13.4		43.6N	91.5W	350	22	? 40
0066087	4.32 MN	3.7		46.9N	95.1W	350	22	? 40
0066088	4.33 MN	5.8		46.1N	92.4W	350	22	? 40
0066089	4.34 MN	14.8		44.1N	93.5W	350	22	? 40
0066090	4.35 MN	17.5		46.8N	95.9W	350	22	? 40
0066091	4.36 MN	13.0		43.6N	93.4W	350	22	? 40
0066092	4.37 MN	9.1		43.6N	93.4W	350	22	D 25
0066093	4.38 MN	3.9		47.0N	93.6W	350	22	D 25

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0066094	4.39	MN	4.8	47.0N	93.6W	350	22 D 25
0066095	4.40	MN	9.4	47.1N	93.9W	350	22 D 25
0066096	4.41	MN	6.8	47.1N	93.9W	350	22 D 25
0066097	4.42	MN	9.7	45.8N	96.1W	350	22 ? 40
0066098	4.43	MN	11.3	45.3N	95.6W	350	22 ? 40
0066099	4.44	MN	6.8	45.3N	95.6W	350	22 ? 40
0066100	4.45	MN	17.0	45.3N	94.9W	350	22 ? 40
0066101	4.46	MN	17.7	45.3N	94.9W	350	22 ? 40
0066102	4.47	MN	0.6	45.6N	94.2W	350	22 ? 40
0066103	4.48	MN	7.6	45.6N	94.2W	350	22 ? 40
0066104	5.01	WI	3.1	42.9N	89.2W	350	22 ? 40
0066105	5.02	WI	2.7	44.3N	90.9W	350	22 D 25
0066106	5.03	WI	6.5	44.3N	90.9W	350	22 ? 40
0066107	5.04	WI	9.3	44.6N	91.0W	350	22 ? 40
0066108	5.05	WI	7.5	43.3N	89.4W	350	22 ? 40
0066109	5.06	WI	18.5	43.3N	89.4W	350	22 ? 40
0066110	5.07	WI	11.9	43.6N	90.9W	350	22 ? 40
0066111	5.08	WI	3.9	44.1N	89.5W	350	22 D 25
0066112	5.09	WI	4.9	44.1N	89.5W	350	22 D 55
0066113	5.10	WI	8.8	45.2N	92.4W	350	22 ? 40
0066114	5.11	WI	5.5	42.9N	90.7W	350	22 ? 40
0066115	5.12	WI	5.4	42.9N	90.7W	350	22 ? 40
0066116	5.13	WI	6.5	43.6N	90.9W	350	22 ? 40
0066117	5.14	WI	6.7	42.9N	89.2W	350	22 ? 40
0066118	5.15	WI	11.6	42.9N	90.7W	350	22 ? 40
0066119	5.16	WI	10.6	45.3N	92.4W	350	22 ? 40
0066120	5.17	WI	7.6	44.5N	89.6W	350	22 ? 40
0066121	5.18	WI	3.0	44.5N	89.6W	350	22 ? 40
0066122	5.19	WI	5.7	45.0N	89.6W	350	22 ? 40
0066123	5.20	WI	6.8	45.6N	90.3W	350	22 ? 40
0066124	5.21	WI	8.1	45.6N	90.3W	350	22 ? 25
0066125	5.22	WI	6.7	44.7N	90.2W	350	22 ? 40
0066126	5.23	WI	8.7	42.9N	89.2W	350	22 ? 40
0066127	5.24	WI	6.9	45.0N	92.4W	350	22 ? 40
0066128	5.25	WI	9.0	45.9N	90.5W	350	22 D 25
0066129	5.26	WI	8.6	45.9N	90.5W	350	22 ? 40
0066130	5.27	WI	8.5	45.6N	90.3W	350	22 ? 40
0066131	5.28	WI	3.2	43.3N	89.4W	350	22 ? 40
0066132	5.29	WI	5.1	43.3N	89.4W	350	22 ? 40
0066133	5.30	WI	5.7	43.3N	89.4W	350	22 D 25
0066134	5.31	WI	7.9	45.2N	92.4W	350	22 ? 25
0066135	5.32	WI	7.7	46.3N	90.7W	350	22 ? 25
0066136	5.33	WI	14.9	45.0N	92.4W	350	22 ? 40
0066137	5.34	WI	7.9	46.6N	90.9W	350	22 ? 40
0066138	5.35	WI	8.7	46.6N	90.9W	350	22 ? 40
0066139	5.36	WI	6.9	45.0N	89.8W	350	22 D 25
0066140	5.37	WI	2.9	44.3N	90.9W	350	22 D 23
0066141	5.38	WI	4.5	45.9N	89.6W	350	22 D 22
0066142	5.39	WI	4.8	45.9N	89.6W	350	22 D 22
0066143	5.40	WI	9.0	45.0N	90.3W	350	22 ? 40

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0066144	5.41	WI	9.9	45.0N	90.3W	350	22 ? 40
0066145	5.42	WI	7.0	45.4N	91.4W	350	22 D 25
0066146	5.43	WI	7.8	45.3N	92.4W	350	22 ? 40
0066147	5.44	WI	16.4	45.6N	90.9W	350	22 ? 40
0066148	5.45	WI	4.6	44.3N	90.9W	350	22 ? 40
0066149	5.46	WI	5.1	44.6N	91.0W	350	22 ? 40
0066150	5.47	WI	5.8	44.6N	91.0W	350	22 ? 40
0066151	5.48	WI	5.1	45.9N	89.6W	350	22 D 25
0066152	5.49	WI	5.4	44.5N	89.6W	350	22 D 22
0066153	5.50	WI	6.7	44.1N	89.5W	350	22 ? 40
0066154	5.51	WI	4.0	44.1N	89.5W	350	22 ? 40
0066155	5.52	WI	7.2	45.4N	91.4W	350	22 ? 40
0066156	5.53	WI	5.1	45.5N	91.2W	350	22 ? 40
0066157	5.54	WI	6.7	45.5N	91.2W	350	22 D 25
0066158	5.55	WI	7.6	46.1N	91.8W	350	22 ? 40
0066159	5.56	WI	5.1	46.1N	91.8W	350	22 ? 40
0066160	5.57	WI	8.1	46.1N	91.8W	350	22 D 25
0067001	2.01	CT	4.1	42.0N	72.6W	150	21 E 23
0067002	2.02	CT	10.0	41.8N	72.7W	150	21 ? 40
0067003	2.03	CT	11.3	41.4N	72.9W	150	21 ? 55
0067004	2.04	CT	11.7	41.4N	72.9W	150	21 ? 40
0067005	2.05	CT	8.3	41.8N	72.7W	150	21 ? 40
0067006	2.06	CT	6.8	41.8N	72.7W	150	21 ? 40
0067007	2.07	CT	8.3	42.0N	72.6W	150	21 E 25
0067008	2.08	CT	7.0	42.0N	72.6W	150	21 ? 40
0067009	2.09	CT	5.2	41.9N	72.3W	230	21 E 22
0067010	2.10	CT	9.2	41.8N	72.7W	150	21 ? 40
0067011	2.11	CT	10.3	41.4N	72.9W	150	21 ? 40
0067012	2.12	CT	8.4	41.4N	72.9W	150	21 E 25
0067013	2.13	CT	8.1	41.4N	73.5W	230	21 ? 40
0067014	2.14	CT	5.8	41.8N	72.7W	150	21 E 23
0067015	2.15	CT	6.1	42.0N	72.6W	150	21 ? 40
0067016	2.16	CT	5.0	42.0N	72.6W	150	21 E 25
0067017	2.17	CT	6.8	41.4N	73.5W	150	21 ? 40
0067018	3.01	MA	6.2	42.1N	72.7W	150	21 ? 40
0067019	3.02	MA	6.9	42.4N	72.5W	150	21 ? 40
0067020	3.03	MA	8.6	42.4N	72.5W	150	21 E 25
0067021	3.04	MA	11.1	42.1N	72.7W	150	21 ? 40
0067022	3.05	MA	8.4	42.1N	72.7W	150	21 E 23
0067023	3.06	MA	11.2	42.6N	72.6W	230	21 E 25
0067024	3.07	MA	7.2	42.6N	72.6W	230	21 ? 40
0067025	3.08	MA	10.7	42.6N	72.6W	230	21 ? 40
0067026	3.09	MA	6.8	42.6N	72.6W	230	21 E 22
0067027	3.10	MA	7.4	42.6N	72.6W	230	21 E 25
0067028	3.11	MA	7.4	42.4N	72.9W	230	21 ? 40
0067029	3.12	MA	6.4	42.4N	72.9W	230	21 ? 40
0067030	3.13	MA	14.7	42.6N	72.6W	230	21 ? 40
0067031	3.14	MA	14.5	42.4N	72.5W	150	21 ? 40
0067032	3.15	MA	12.0	42.1N	72.7W	150	21 ? 40
0067033	3.16	MA	7.7	41.4N	72.9W	150	21 ? 40

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0067034	3.17	MA	11.3	41.4N	72.9W	150	21 ? 40
0067035	3.18	MA	17.8	41.4N	72.9W	150	21 ? 40
0067036	4.01	NH	11.6	43.4N	72.2W	300	21 ? 40
0067037	4.02	NH	9.2	43.4N	72.3W	150	21 ? 40
0067038	4.03	NH	18.3	43.4N	72.2W	300	21 ? 40
0067039	4.04	NH	9.6	43.4N	72.3W	230	21 E 25
0067040	4.05	NH	12.5	42.8N	71.6W	090	21 ? 40
0067041	4.06	NH	10.4	42.8N	71.6W	090	21 ? 40
0067042	4.07	NH	13.4	43.4N	72.2W	300	21 ? 40
0067043	4.08	NH	12.8	42.8N	71.6W	090	21 ? 40
0067044	4.09	NH	8.4	43.4N	72.3W	230	21 ? 40
0067045	5.01	NY	11.6	42.8N	74.0W	090	21 E 25
0067046	5.02	NY	9.4	42.9N	73.5W	120	21 E 25
0067047	5.03	NY	6.7	43.3N	78.5W	180	21 ? 40
0067048	5.04	NY	15.5	43.2N	77.9W	180	21 ? 40
0067049	5.05	NY	13.2	42.2N	78.7W	180	21 ? 40
0067050	5.06	NY	11.6	43.3N	78.5W	180	21 ? 40
0067051	5.07	NY	5.3	42.9N	73.5W	120	21 ? 40
0067052	5.08	NY	35.2	43.2N	77.6W	170	21 ? 40
0067053	5.09	NY	9.7	43.3N	78.5W	180	21 ? 40
0067054	5.10	NY	16.0	43.0N	78.2W	215	21 E 25
0067055	5.11	NY	11.1	43.3N	78.8W	180	21 ? 40
0067056	5.12	NY	12.2	43.2N	77.9W	180	21 ? 40
0067057	5.13	NY	14.2	43.1N	73.5W	120	21 ? 30
0067058	5.14	NY	15.0	43.3N	77.8W	180	21 ? 40
0067059	5.15	NY	9.2	43.1N	73.5W	120	21 ? 40
0067060	5.16	NY	10.3	43.3N	78.8W	180	21 ? 40
0067061	5.17	NY	12.0	43.3N	78.8W	180	21 ? 40
0067062	5.18	NY	12.8	43.2N	78.7W	180	21 ? 30
0067063	5.19	NY	10.4	43.2N	78.7W	180	21 ? 40
0067064	5.20	NY	13.5	43.3N	77.8W	180	21 ? 40
0067065	5.21	NY	12.7	43.0N	78.2W	215	21 ? 40
0067066	5.22	NY	15.3	43.0N	78.2W	215	21 ? 40
0067067	5.23	NY	11.4	43.1N	73.5W	120	21 E 55
0067068	5.24	NY	7.7	43.3N	77.8W	180	21 ? 40
0067069	5.25	NY	9.8	43.2N	78.7W	180	21 ? 40
0067070	5.26	NY	4.0	42.9N	73.5W	120	21 E 25
0067071	5.27	NY	18.7	43.2N	77.6W	170	21 E 55
0067072	5.28	NY	30.4	42.2N	78.7W	180	21 E 25
0067073	5.29	NY	6.1	42.1N	78.4W	675	21 ? 40
0067074	5.30	NY	5.2	42.1N	78.4W	675	21 E 25
0067075	5.31	NY	6.8	42.2N	78.7W	180	21 ? 40
0067076	5.32	NY	5.9	43.2N	77.6W	170	21 ? 40
0067077	5.33	NY	26.3	43.2N	77.6W	170	21 ? 40
0067078	6.01	PA	5.3	40.5N	78.0W	300	21 ? 40
0067079	6.02	PA	10.7	40.9N	77.5W	550	21 ? 40
0067080	6.03	PA	4.7	40.2N	78.2W	300	21 E 22
0067081	6.04	PA	8.8	40.7N	79.4W	360	21 ? 40
0067082	6.05	PA	10.6	41.6N	80.1W	360	21 ? 40
0067083	6.06	PA	16.0	41.0N	79.6W	335	21 ? 40

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0067084	6.07	PA	7.9	41.4N	76.1W	360	21 E 25
0067085	6.08	PA	8.5	40.5N	78.9W	400	21 ? 40
0067086	6.09	PA	11.3	40.5N	78.9W	400	21 E 23
0067087	6.10	PA	7.8	40.3N	78.3W	460	21 E 22
0067088	6.11	PA	5.0	40.3N	78.3W	460	21 ? 40
0067089	6.12	PA	9.7	40.9N	77.5W	550	21 ? 40
0067090	6.13	PA	15.5	40.2N	78.2W	300	21 ? 40
0067091	6.14	PA	12.5	40.2N	78.2W	300	21 ? 40
0067092	6.15	PA	8.8	40.6N	79.1W	335	21 ? 40
0067093	6.16	PA	8.0	40.6N	79.1W	335	21 ? 40
0067094	6.17	PA	6.9	40.7N	79.4W	360	21 ? 40
0067095	6.18	PA	16.0	41.6N	80.1W	430	21 ? 40
0067096	6.19	PA	8.9	40.6N	79.1W	335	21 ? 40
0067097	6.20	PA	12.1	40.3N	78.3W	460	21 ? 40
0067098	6.21	PA	3.9	40.8N	77.9W	400	21 E 25
0067099	6.22	PA	6.6	41.6N	75.9W	300	21 ? 40
0067100	6.23	PA	16.1	41.6N	80.1W	430	21 ? 40
0067101	6.24	PA	9.5	41.6N	80.1W	430	21 ? 40
0067102	6.25	PA	14.8	41.6N	80.1W	430	21 ? 55
0067103	6.26	PA	2.4	40.8N	77.9W	400	21 ? 30
0067104	6.27	PA	3.9	40.8N	77.9W	400	21 E 25
0067105	6.28	PA	9.8	40.8N	77.9W	400	21 ? 40
0067106	6.29	PA	12.4	41.1N	76.9W	180	21 ? 40
0067107	6.30	PA	8.9	41.1N	76.9W	180	21 ? 55
0067108	6.31	PA	8.1	41.2N	76.1W	300	21 ? 40
0067109	6.32	PA	17.8	40.6N	79.1W	335	21 ? 40
0067110	6.33	PA	17.2	40.5N	78.0W	300	21 ? 40
0067111	6.34	PA	6.6	41.1N	76.9W	180	21 ? 40
0067112	6.35	PA	30.2	41.4N	76.1W	360	21 ? 40
0067113	6.36	PA	10.0	40.7N	79.4W	360	21 E 25
0067114	6.37	PA	18.9	41.0N	79.6W	335	21 ? 40
0067115	6.38	PA	13.3	40.5N	78.9W	400	21 E 25
0067116	6.39	PA	3.6	41.2N	76.1W	300	21 ? 40
0067117	6.40	PA	4.9	41.2N	76.1W	300	21 E 25
0067118	6.41	PA	5.0	41.6N	75.9W	300	21 E 25
0067119	6.42	PA	3.9	41.6N	75.9W	300	21 E 25
0067120	6.43	PA	15.6	41.6N	80.1W	430	21 ? 40
0067121	6.44	PA	10.7	41.6N	80.1W	430	21 ? 40
0067122	6.45	PA	13.4	41.6N	80.1W	430	21 E 25
0067123	6.46	PA	13.0	41.8N	77.1W	460	21 E 55
0067124	6.47	PA	9.0	41.8N	77.1W	460	21 ? 40
0067125	6.48	PA	9.4	41.8N	77.1W	460	21 E 55
0067126	6.49	PA	5.4	41.1N	76.9W	180	21 ? 40
0067127	6.50	PA	11.4	40.8N	77.9W	400	21 E 22
0067128	6.51	PA	12.5	40.8N	77.9W	400	21 ? 55
0067129	6.52	PA	8.6	41.4N	76.1W	360	21 ? 40
0067130	7.01	VT	3.8	43.6N	72.3W	215	21 ? 40
0067131	7.02	VT	4.8	43.6N	72.3W	215	21 E 23
0067132	7.03	VT	16.9	43.6N	72.5W	300	21 ? 40
0067133	7.04	VT	9.5	43.6N	72.5W	300	21 E 25

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
0067134 7.05 VT	12.4		43.6N	72.5W	300	21	?	40	
0068001 NE260-1-NH	17.4		44.2N	71.3W	0287	34	D	25	583
0068002 NE260-3-NH	5.5		44.2N	71.3W	0305	34	D	25	583
0068003 NE260-4-NH	17.3		44.2N	71.3W	0265	34	D	25	583
0068004 NE260-11-NH	3.9		44.2N	71.3W	0320	34	D	25	
0068005 NE260-15-NH	20.2		44.2N	71.3W	0305	34	D	22	583
0068006 NE260-17-NH	7.2		44.2N	71.3W	0396	34	D	25	583
0069001 512AWA	2.4	58.	47.4N	121.8W	0214	66	?	22	
0070001 H1CA	26.7	1431.	40.5N	124.0W	0060	64	D	22	
0070002 H2CA	17.8	1416.	40.3N	124.2W	0090	64	D	22	
0070003 H3CA	29.1	1863.	40.9N	124.0W	0060	64	D	22	
0071001 D4CA	34.0	1710.	41.9N	124.1W	0015	65	D	22	
0071002 D5CA	21.0	1113.	41.8N	124.2W	0011	65	D	22	
0071003 D6CA	27.7	1635.	41.8N	124.2W	0017	65	D	22	
0072002 532ACA	7.9	1257.	37.7N	123.1W	0020	26	?		
0072003 532BCA	16.5	1435.	37.7N	123.1W	0020	26	?		
0073001 1U SC	13.1	263.	33.0N	80.2W	60	68	K	27	
0073002 1B SC	10.5	209.	33.0N	80.2W	60	68	?	27	
0073003 2U SC	9.1	269.	32.5N	81.0W	60	68	K	27	
0073004 2B SC	7.9	208.	32.5N	81.0W	60	68	?	27	
0073005 3U GA	7.1	198.	31.2N	82.4W	60	68	K	27	
0073006 3B GA	8.6	239.	31.2N	82.4W	60	68	?	27	
0073007 4U GA	5.3	152.	31.0N	82.1W	60	68	K	27	
0073008 4B GA	7.5	196.	31.0N	82.1W	60	68	?	27	
0073009 5U FL	3.7	135.	30.2N	82.6W	60	68	K	27	
0073010 5B FL	4.9	134.	30.2N	82.6W	60	68	?	27	
0073011 6U FL	5.0	195.	29.9N	82.1W	60	68	K	27	
0073012 6B FL	3.4	171.	29.9N	82.1W	60	68	?	27	
0073013 7U FL	4.4	136.	30.1N	82.2W	60	68	K	27	
0073014 7B FL	4.2	138.	30.1N	82.2W	60	68	?	27	
0073015 8U FL	4.7	117.	29.6N	82.8W	60	68	K	27	
0073016 8B FL	5.6	132.	29.6N	82.8W	60	68	?	27	
0073017 10U FL	13.1	262.	27.9N	81.8W	60	68	K	27	
0073018 10B FL	12.3	203.	27.9N	81.8W	60	68	?	27	
0073019 11U FL	6.8	200.	30.5N	86.5W	60	68	K	24	
0073020 11B FL	5.8	170.	30.5N	86.5W	60	68	?	24	
0073021 12U GA	4.7	91.	32.5N	82.6W	60	68	K	27	
0073022 12B GA	4.4	83.	32.5N	82.6W	60	68	?	27	
0073023 13U FL	5.1	132.	30.8N	85.5W	60	68	K	27	
0073024 13B FL	5.1	127.	30.8N	85.5W	60	68	?	27	
0073025 14U AL	10.0	191.	30.7N	87.8W	60	68	K	27	
0073026 14B AL	8.1	172.	30.7N	87.8W	60	68	?	27	
0073027 15U MS	6.2	220.	31.4N	88.5W	60	68	K	27	
0073028 15B MS	6.8	169.	31.4N	88.5W	60	68	?	27	
0073029 16U MS	4.7	136.	30.9N	89.1W	60	68	K	27	
0073030 16B MS	8.5	170.	30.9N	89.1W	60	68	?	27	
0073031 17U MS	8.1	164.	30.7N	89.6W	60	68	K	27	
0073032 17B MS	8.7	166.	30.7N	89.6W	60	68	?	27	
0073033 18U LA	8.8	207.	31.9N	92.3W	60	68	K	27	
0073034 18B LA	9.0	224.	31.9N	92.3W	60	68	?	27	

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0074001	4544155-1 TX	3.4	31.5N	97.1W	100	67	J 26
0074002	4544155-2 TX	1.9	31.5N	97.1W	100	67	J 26
0074003	45-AL-57-1	3.6	31.9N	85.1W	100	67	K 24
0074004	45-LA-07-1	7.5	32.5N	93.1W	100	67	K 24
0074005	45-LA-31-1	5.6	32.5N	92.5W	100	67	K 24
0074006	45-MS-38-2	4.2	32.4N	88.7W	100	67	K 24
0074007	4544107-2 TX	4.8	32.2N	95.9W	123	67	J 26
0074008	4544107-3 TX	8.7	32.2N	95.9W	122	67	J 26
0074009	45-LA-07-2	2.5	32.2N	92.7W	100	67	K 24
0074010	45-LA-31-2	0.0	32.5N	92.5W	100	67	? 26
0074011	45-AL-34-1	4.1	31.6N	85.1W	100	67	? 58
0074012	47-GA-82-1	0.0	32.8N	81.9W	061	67	K 24
0074013	45-LA-56-2	6.2	32.8N	92.4W	100	67	K 24
0074014	45-MS-16-1	3.1	31.6N	89.6W	100	67	? 27
0074015	45-MS-18-1	4.8	31.1N	89.2W	100	67	? 58
0074016	47-SC-45-2	0.0	33.7N	79.8W	012	67	K 24
0074017	47-GA-81-2	0.0	32.9N	82.4W	100	67	? 27
0074018	45-LA-31-3	4.2	32.5N	92.6W	100	67	K 24
0074019	45-LA-56-1	1.6	32.8N	92.7W	100	67	? 58
0074020	45-MS-38-1	6.2	32.4N	88.7W	100	67	K 24
0074021	45-MS-51-1	1.2	32.3N	88.9W	100	67	K 24
0074022	4544107-5 TX	0.0	32.3N	96.0W	100	67	I 58
0074023	4544107-6 TX	2.2	32.2N	95.9W	100	67	I 58
0074024	49-TN-20-1	7.3	35.5N	88.3W	100	67	K 26
0074025	49-TN-20-2	7.0	35.5N	88.3W	100	67	K 26
0074026	49-TN-39-3	7.1	35.5N	88.3W	100	67	K 26
0074027	49-TN-39-4	7.2	35.5N	88.3W	100	67	K 26
0074028	47-MS-38-1	5.0	32.4N	88.7W	100	67	K 27
0074029	47-MS-38-2	4.2	32.4N	88.7W	100	67	K 27
0074030	47-MS-38-3	3.6	32.4N	88.7W	100	67	K 27
0074031	47-MS-38-4	1.9	32.4N	88.7W	100	67	K 27
0074032	47-MS-38-5	4.0	32.4N	88.7W	100	67	K 27
0074033	47-MS-59-4	5.6	34.7N	88.6W	100	67	K 27
0074034	47-MS-59-5	5.1	34.7N	88.6W	100	67	K 27
0074035	47-MS-59-6	5.3	34.7N	88.6W	100	67	K 27
0074036	47-MS-59-7	2.1	34.7N	88.6W	100	67	K 27
0074037	47-MS-59-8	5.5	34.7N	88.6W	100	67	K 27
0074038	48-MS-53-1	4.8	33.4N	88.8W	100	67	K 24
0074039	48-MS-53-2	2.7	33.4N	88.8W	100	67	K 24
0074040	48-MS-53-3	4.5	33.4N	88.8W	100	67	K 26
0074041	48-MS-53-4	4.2	33.4N	88.8W	100	67	K 24
0074042	48-MS-53-5	5.1	33.4N	88.8W	100	67	K 24
0074043	4544184-3 TX	5.8	32.8N	97.8W	100	67	J 58
0074044	4544184-2 TX	5.0	32.8N	97.8W	100	67	J 58
0074045	4544072-1 TX	5.5	32.2N	98.2W	100	67	J 26
0074046	4544184-1 TX	5.7	32.8N	97.8W	100	67	J 58
0075001	10 AK	60.6	71.3N	156.8W	020	71	4 53
0075002	11 AK	27.4	71.3N	156.8W	020	71	4 53
0075003	71 AK	0.0	60.8N	161.7W	020	71	4 53
0075004	52 AK	50.9	2766.	51.9N	176.6W	400	71 4 53

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0075005 53 AK	0.0		51.9N	176.6W	010	71	4 53
0075006 54 AK	0.0		51.5N	179.0W	030	71	4 53
0075007 55 AK	0.0		52.7N	174.1W	020	71	3 53
0075008 59 AK	0.0		53.2N	168.3W	020	71	3 53
0075009 57 AK	0.0		53.9N	166.5W	020	71	3 53
0075010 50 AK	0.0		55.2N	162.7W	020	71	3 53
0075011 69 AK	0.0		59.6N	151.5W	090	71	3 53
0075012 70 AK	0.0		59.6N	151.5W	150	71	3 53
0075013 25 AK	0.0		63.0N	149.5W	400	71	7 63
0075014 48 AK	0.0		61.2N	149.9W	030	71	7 63
0075015 47 AK	0.0		61.5N	149.7W	030	71	7 63
0075016 15 AK	2.4	117.	65.5N	144.6W	450	71	7 63
0075017 1 AK	8.1	527.	64.9N	157.2W	180	71	7 64 7XX
0075018 2 AK	8.3	541.	64.9N	157.2W	180	71	? 64 7XX
0075019 8 AK	6.9	379.	65.0N	157.2W	450	71	7 64 7XX
0075020 7 AK	11.5	771.	64.9N	157.2W	180	71	? 64 7XX
0075021 17 AK	0.0		65.8N	144.1W	180	71	? 62 7XX
0075022 40 AK	0.0		60.1N	155.1W	450	71	7 64 7XX
0075023 39 AK	0.0		61.4N	142.9W	450	71	7 64 7XX
0075024 37 AK	0.0		61.4N	142.9W	450	71	7 64 7XX
0075025 44 AK	0.0		61.4N	142.9W	450	71	7 64 7XX
0075026 36 AK	0.0		61.4N	142.9W	450	71	? 64 7XX
0075027 43 AK	0.0		62.0N	145.3W	300	71	? 64 7XX
0075028 27 AK	22.0	1067.	61.6N	149.1W	200	71	7 64 7XX
0075029 29 AK	0.0		61.6N	149.1W	200	71	7 64 7XX
0075030 34 AK	0.0		61.6N	149.1W	200	71	? 64 7XX
0075031 28 AK	0.0		61.6N	149.1W	200	71	? 64 7XX
0075032 31 AK	0.0		61.6N	149.1W	200	71	? 64 7XX
0075033 4 AK	10.2	432.	64.9N	147.2W	180	71	7 63
0075034 3 AK	17.7	1003.	64.9N	147.2W	180	71	? 63
0075035 6 AK	9.5	565.	64.9N	147.7W	180	71	7 63
0075036 18 AK	10.2	402.	64.9N	147.7W	180	71	7 63
0075037 19 AK	9.3	414.	64.9N	147.7W	180	71	? 63
0075038 21 AK	0.0		64.8N	147.7W	180	71	7 63
0075039 16 AK	0.0		65.5N	144.6W	450	71	3 62
0075040 16B AK	0.0		65.5N	144.6W	450	71	3 62
0075041 35 AK	0.0		62.3N	145.4W	400	71	7 63
0075042 42 AK	0.0		61.9N	145.3W	400	71	7 63
0075043 68 AK	0.0		59.6N	151.5W	180	71	7 63
0075044 65 AK	0.0		59.6N	151.5W	180	71	? 63
0075045 14 AK	34.7	1868.	65.5N	146.0W	650	71	4 62 62X
0075046 22 AK	0.0		63.7N	148.9W	900	71	4 62
0075047 23 AK	27.4	2064.	63.4N	150.3W	1200	71	4 62
0075048 38 AK	0.0		61.4N	142.9W	400	71	? 21 7XX
0075049 41 AK	0.0		61.6N	145.2W	450	71	? 21 7XX
0075050 30 AK	0.0		61.7N	147.8W	450	71	? 21 7XX
0075051 24 AK	0.0		63.7N	149.3W	600	71	3 62 7XX
0075052 33 AK	0.0		61.5N	149.6W	005	71	3 21 7XX
0075053 73 AK	0.0		60.1N	149.4W	300	71	? 21 7XX
0075054 67 AK	0.0		59.6N	151.5W	180	71	? 21 7XX

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA. (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
0075055	58	AK	0.0	53.2N	168.3W	020	71	4	64
0075056	60	AK	0.0	57.8N	152.4W	020	71	3	53
0075057	62	AK	0.0	57.8N	152.4W	020	71	?	53
0075058	63	AK	0.0	57.8N	152.4W	200	71	3	53
0076001	2	AT	31.7	51.2N	115.0W	1550	74	?	55
0076002	3	AT	35.6	51.2N	115.0W	1430	74	7	25
0076003	4	AT	10.2	51.2N	115.0W	1460	74	7	25
0076004	5	AT	7.9	51.2N	115.0W	1580	74	7	22
0076005	5A	AT	4.7	51.2N	115.0W	1580	74	7	22
0076006	6	AT	7.0	51.2N	115.0W	1900	74	7	22
0076007	6A	AT	6.5	51.2N	115.0W	1900	74	7	22
0076008	7	AT	3.8	51.2N	115.0W	1372	74	7	22
0076009	7A	AT	3.5	51.2N	115.0W	1372	74	7	22
0076010	8	AT	0.0	51.2N	115.0W	1675	74	?	64
0076011	9	AT	0.0	51.2N	115.0W	2300	74	?	64
0077001	QUAD 24A4	P4	13.1	40.8N	122.6W	0900	25	D	27
0077002	QUAD 25D3	P1	3.4	40.6N	123.2W	0900	25	D	27
0077003	QUAD 39B2	P1	9.5	39.9N	121.4W	1200	25	D	27
0077004	QUAD 40A4	P2	12.9	39.8N	121.6W	0750	25	D	27
0078001	BT15.1	MX	14.2	18.6N	90.7W	0120	76	Z	43 520
0078002	BT15.2	MX	31.2	18.6N	90.7W	0120	76	Z	43 520
0078003	BT15.3	MX	12.2	18.6N	90.7W	0115	76	Z	43 520
0078004	BT15.4	MX	11.6	18.6N	90.7W	0105	76	Z	43 520
0078005	BT15.5	MX	5.7	18.6N	90.7W	0105	76	Z	43 520
0078006	BT15.6	MX	16.7	18.6N	90.7W	0100	76	Z	43 520
0078007	BT15.7	MX	6.8	18.6N	90.7W	0115	76	Z	43 520
0079001	C3471	MB	1.0	58.7N	94.2W	0038	78	3	53 50X
0079002	C3478	NW	2.5	63.0N	82.0W	0038	78	3	53
0079003	C3479	QU	43.5	62.0N	77.0W	0457	78	3	53
0079004	C3480	NW	28.8	62.0N	70.0W	0137	78	3	53 640
0079005	C3481	NW	15.6	62.0N	70.0W	0229	78	3	53 640
0079006	C3491	NW	28.4	73.0N	74.0W	0091	78	3	53 50X
0079007	C3493	NW	40.3	60.0N	64.0W	0100	78	3	53 640
0079008	C3498	NW	30.0	74.0N	82.0W	0122	78	3	53 640
0079009	C3503	MB	46.9	58.7N	94.2W	0038	78	?	53
0079010	C3504	MB	47.0	58.7N	94.2W	0038	78	?	53
0079011	C3505	MB	38.8	58.7N	94.2W	0038	78	?	53
0079012	C3506	MB	22.8	58.7N	94.2W	0038	78	3	53
0079013	C3508	MB	22.7	58.7N	94.2W	0038	78	3	53
0080001	FU5	AK	10.0	67.1N	154.4W	0400	83	7	22 620
0080002	FU9	AK	17.8	67.1N	154.4W	0500	83	7	22 620
0080003	FU14	AK	23.1	67.1N	154.4W	0580	83	3	63 620
0080004	FU13	AK	14.5	67.1N	154.4W	0580	83	3	63 620
0080005	FU18	AK	8.0	67.1N	154.4W	0975	83	3	53 620
0080006	FU17	AK	5.2	67.1N	154.4W	1100	83	3	53 620
0081001	UM01	NW	8.7	61.8N	120.7W	275	84	7	21 7XX
0081002	UM02	NW	2.5	62.6N	116.2W	275	84	7	21 7XX
0081003	UM03	NW	7.6	61.4N	120.1W	275	84	7	21 7XX
0081004	UM04	NW	11.1	61.4N	117.8W	275	84	7	21 7XX
0081005	UM05	NW	3.8	61.8N	116.7W	275	84	7	21 7XX

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	A	B	C
0081006	UM06 NW	5.9	370.	62.0N	117.2W	180	84	7	21	7XX
0081007	UM07 NW	2.5	485.	61.1N	117.5W	180	84	7	21	7XX
0081008	UM08 NW	15.2	891.	60.7N	116.5W	275	84	7	21	7XX
0081009	UM09 NW	244.6	5731.	61.2N	117.5W	275	84	7	21	
0081010	UM10 NW	5.0	509.	61.7N	120.6W	275	84	7	21	7XX
0081011	UM11 NW	8.1	703.	61.4N	120.0W	275	84	7	21	7XX
0081012	UM12 NW	12.0	728.	61.4N	118.5W	275	84	7	21	7XX
0081013	UM13 NW	34.4	2296.	61.4N	118.0W	275	84	7	21	7XX
0081014	UM14 NW	7.7	584.	61.3N	118.6W	275	84	7	21	7XX
0081015	UM15 NW	156.5	8403.	60.9N	116.7W	275	84	7	21	
0081016	UM16 NW	2.7	235.	61.3N	116.8W	275	84	7	21	
0081017	UM17 NW	9.2	709.	61.4N	118.0W	275	84	7	21	7XX
0081018	UM18 NW	6.3	662.	61.5N	117.2W	180	84	7	21	7XX
0081019	UM19 NW	4.2	420.	61.4N	118.2W	180	84	7	21	7XX
0081020	UM20 NW	9.1	808.	61.4N	117.5W	180	84	7	21	7XX
0081021	UM21 NW	6.7	674.	61.6N	120.7W	225	84	7	21	7XX
0081022	UM22 NW	13.0	1086.	62.0N	117.3W	225	84	7	21	7XX
0081023	UM23 NW	6.8	584.	61.4N	117.5W	180	84	7	21	7XX
0081024	UM24 NW	11.1	773.	61.9N	116.6W	180	84	7	21	7XX
0081025	UM25 NW	19.5	1668.	61.5N	118.0W	225	84	7	21	7XX
0081026	UM26 NW	10.7	991.	61.2N	119.4W	225	84	7	21	7XX
0081027	UM27 NW	9.8	657.	60.9N	117.4W	225	84	7	21	7XX
0081028	UM28 NW	11.0	644.	62.6N	116.4W	225	84	7	21	7XX
0081029	UM29 NW	7.9	410.	61.3N	119.8W	225	84	7	21	7XX
0081030	UM30 NW	8.1	314.	61.6N	120.7W	225	84	7	21	7XX
0081031	UM31 NW	1.7	112.	61.0N	117.3W	180	84	7	21	7XX
0081032	UM32 NW	5.2	306.	60.9N	116.9W	225	84	7	21	7XX
0081033	UM33 NW	14.3	1085.	60.8N	115.8W	275	84	7	21	7XX
0081034	UM34 NW	5.6	599.	60.8N	115.8W	275	84	7	21	7XX
0081035	UM35 NW	6.2	547.	60.4N	116.4W	275	84	7	21	7XX
0081036	UM36 NW	15.3	1084.	60.8N	115.8W	275	84	7	21	7XX
0082001	LR01 NW	1.9	221.	61.8N	121.3W	400	85	7	21	
0082002	LR02 NW	9.6	723.	61.9N	121.5W	400	85	7	21	
0082003	LR03 NW	17.4	1475.	60.0N	123.7W	400	85	7	21	
0082004	LR04 NW	5.7	462.	61.1N	122.9W	400	85	7	21	
0082005	LR05 NW	19.7	1966.	60.9N	123.3W	400	85	7	21	
0082006	LR06 NW	349.4	5685.	61.2N	122.8W	400	85	7	21	
0082007	LR07 NW	10.7	883.	61.8N	121.2W	400	85	7	21	
0082008	LR08 NW	11.6	1187.	60.2N	123.5W	400	85	7	21	
0082009	LR09 NW	24.4	1251.	61.9N	121.4W	400	85	7	21	
0082010	LR10 NW	8.5	563.	61.9N	121.4W	400	85	7	21	
0082011	LR11 NW	14.3	1464.	61.7N	121.2W	400	85	7	21	
0082012	LR12 NW	32.8	1558.	61.7N	121.3W	400	85	7	21	
0082013	LR13 NW	50.7	2598.	60.0N	123.8W	400	85	7	21	
0082014	LR14 NW	29.2	1420.	60.6N	123.5W	400	85	7	21	
0082015	LR15 NW	63.1	3273.	61.9N	121.3W	400	85	7	21	
0082016	LR16 NW	43.0	1994.	61.8N	121.2W	400	85	7	21	
0082017	LR17 NW	10.7	340.	61.9N	121.5W	400	85	7	21	
0082018	LR18 NW	199.2	6418.	61.1N	122.9W	400	85	7	21	
0082019	LR19 NW	178.5	7181.	61.5N	121.4W	400	85	7	21	

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
0082020 LR20 NW	27.1	1316.	61.0N	123.5W	400	85	7	21	
0082021 LR21 NW	8.7	222.	61.8N	121.3W	400	85	7	21	
0082022 LR22 NW	17.4	1193.	60.9N	123.3W	400	85	7	21	
0082023 LR23 NW	9.1	898.	61.3N	122.7W	400	85	7	21	
0082024 LR24 NW	7.8	811.	60.1N	123.8W	400	85	7	21	
0082025 LR25 NW	6.4	867.	61.4N	122.0W	400	85	7	21	
0082026 LR26 NW	8.4	656.	61.8N	121.3W	400	85	7	21	
0082027 LR27 NW	9.8	883.	61.8N	121.3W	400	85	7	21	
0082028 LR28 NW	6.6	590.	60.4N	123.3W	400	85	7	21	
0082029 LR30 NW	17.8	1772.	61.0N	123.2W	400	85	7	21	
0082030 LR31 NW	9.1	556.	61.9N	120.2W	400	85	7	21	
0083001 11-3 PA	18.6		40.6N	78.6W	780	88	E	22	
0083002 14-1 PA	4.9		41.0N	78.0W	609	88	E	22	
0083003 14-2 PA	3.7		41.0N	78.0W	427	88	E	22	
0083004 14-3 PA	3.9		41.0N	78.0W	427	88	E	22	
0083005 50-17 PA	6.9		77.2N	40.5W	655	88	E	22	
0083006 53-2 PA	13.9		41.8N	78.0W	655	88	E	22	
0083007 75-1 WV	11.4		39.2N	79.6W	1094	88	E	22	
0083008 75-2 WV	7.1		-9.2N	79.6W	1210	88	E	22	
0084001 FK1 NW	4.1		78.7N	102.0W	100	89	1	53	70X
0084002 FK2 NW	6.5		78.7N	102.0W	100	89	1	53	530
0084003 FK3 NW	1.5		78.7N	102.0W	100	89	1	53	530
0084004 FK4 NW	2.7		78.7N	102.0W	100	89	1	53	530
0084005 FK5 NW	0.9		78.7N	102.0W	100	89	1	53	50X
0085001 70-IA-67-3	8.4		42.0N	96.0W	0350	86	?	55	72X
0085002 67-TX-71-3	6.8		31.5N	106.2W	1100	86	?	58	7XX
0085003 61-IA-36-1	5.2		40.6N	95.6W	0350	86	?	55	76X
0085004 66-NM-7-11	2.2		32.3N	106.8W	1260	86	?	50	73X
0085005 63-KS-29-3	1.4	56.	37.6N	99.8W	0750	86	?	50	73X
0085006 62-OR-29-1	55.4	5721.	45.5N	123.9W	0013	86	?	40	7XX
0085011 67-OR-18-13	7.1	442.	42.7N	122.0W	0638	86	?	39	7XX
0085012 62-NH-1-1	6.5	381.	43.4N	71.4W	0400	86	?	40	5XX
0085013 62-ME-3-5	1.9		43.8N	70.3W	0018	86	?	55	7XX
0085015 58-WV-13-3	6.9	555.	38.0N	80.5W	0732	86	?	25	516
0085016 64-WA-14-3	28.8	1613.	47.0N	123.9W	0009	86	?	22	7XX
0085017 60-MA-2-7	5.7	389.	42.5N	73.3W	0350	86	?	40	7XX
0085018 64-CA-37-1	4.4	218.	33.4N	117.2W	0180	86	?	46	050
0085020 59-IA-93-1	14.4	1240.	40.8N	93.3W	0350	86	?	55	76X
0085021 63-IL-12-1	15.1	1126.	39.4N	87.7W	0200	86	?	58	7XX
0085022 57-IL-38-2	15.7	1203.	40.6N	87.7W	0200	86	?	55	7XX
0085023 4578 OH	10.7		40.8N	84.6W	0270	86	?	58	72X
0085024 61-IA-61-3	18.8	1222.	41.4N	94.0W	0350	86	?	58	76X
0085025 64-IL-27-1	0.0		40.5N	88.4W	0200	86	?	55	7XX
0085026 54-ND-53-1	12.7	572.	48.5N	103.5W	0580	86	?	40	72X
0085027 62-MT-3-2	11.9		48.5N	109.0W	1500	86	?	40	72X
0085028 58-MT-23-1	25.8	1930.	47.0N	110.3W	1600	86	?	40	50X
0085029 58-ND-45-1	8.3	669.	46.8N	102.6W	1500	86	?	55	7XX
0085030 64-ND-6-6	7.0	616.	46.2N	103.5W	0915	86	?	40	7XX
0085031 53-P-10 ND	10.4	633.	46.2N	98.5W	0700	86	?	55	7XX
0085032 63-IA-83-2	14.4		41.4N	95.2W	0350	86	?	55	76X

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0085033	58-IA-43-8	12.2	988.	41.6N	95.9W	0350	86 ? 55 76X
0085034	66-IL-54-5	13.7		40.2N	89.5W	0200	86 ? 58 76X
0085035	59-IA-86-1	14.0	1353.	42.2N	92.5W	0350	86 ? 55 76X
0085036	60-OK-58-1	9.8	896.	36.9N	94.9W	0250	86 ? 58 520
0085037	63-KS-29-1	8.5	644.	37.5N	99.8W	0780	86 ? 58 76X
0085038	65-NB-91-1	15.1	1198.	40.2N	98.5W	0605	86 ? 40 76X
0085039	63-KS-9-2	20.8	922.	38.2N	96.7W	0350	86 ? 41 52X
0085040	60-TX-33-3	11.3		35.4N	101.2W	1200	86 ? 41
0085041	63-TX-254-2	9.6		28.9N	99.9W	0300	86 ? 58 7XX
0085042	59-KS-8-3	18.1	1184.	37.6N	96.8W	0350	86 ? 41
0085043	65-CA-27-13	7.4	486.	36.6N	121.5W	0055	86 ? 37 7XX
0085044	67-UT-20-1	7.7	496.	39.2N	111.7W	1830	86 ? 49 72X
0085045	65-CA-27-4	17.2	1056.	36.2N	121.1W	0183	86 ? 46 52X
0085046	67-UT-18-1	9.9	817.	40.5N	112.0W	2350	86 ? 40 52X
0085047	69-WA-24-10	8.9	753.	48.5N	120.2W	0610	86 ? 55 7XX
0085048	60-NV-3-5	4.6	280.	39.0N	119.8W	2030	86 ? 41 7XX
0085049	64-OR-32-6	15.4	1060.	45.4N	117.2W	1460	86 ? 40 76X
0085051	E5248 OH	13.4	1140.	40.2N	83.4W	0314	86 ? 25 72X
0085052	60-WI-60-1	9.4	685.	45.2N	90.6W	0350	86 ? 25 76X
0085053	61-WI-60-4	7.9	674.	45.2N	90.6W	0350	86 ? 55 7XX
0085054	64-TN-79-3	5.1	458.	35.3N	90.0W	0100	86 ? 58 76X
0085055	61-IL-50-4	6.8	667.	41.2N	89.0W	0200	86 ? 31 76X
0085057	55-CO-25-6	4.9	323.	39.9N	105.9W	3100	86 ? 22 7XX
0085059	6424 OH	6.4		40.7N	84.2W	0250	86 ? 58 72X
0085060	56-IL-30-1	6.6	686.	37.8N	88.3W	0100	86 ? 58
0085061	59-KY-56-3	3.9	280.	38.3N	85.8W	0100	86 ? 31 76X
0085062	61-NY-37-1	5.7	440.	43.2N	78.2W	0100	86 ? 57 7XX
0085063	62-IL-44-1	4.8	319.	37.2N	88.6W	0200	86 ? 41 76X
0085064	56-IN-42-1	4.7	561.	38.6N	87.5W	0100	86 ? 58 76X
0085065	65-TN-94-1	4.9		35.9N	87.0W	0100	86 ? 58 52X
0085066	53-TX-153-63	8.2		33.6N	101.9W	1200	86 ? 41
0085067	69-CA-31-20	2.1	162.	38.9N	121.2W	0030	86 ? 46 7XX
0085068	64-CA-37-6	7.2	327.	33.4N	117.2W	0209	86 ? 46 050
0085069	64-CA-48-4	5.8	605.	38.4N	121.8W	0007	86 ? 46 7XX
0085070	64-CA-48-1	6.1	676.	38.4N	129.7W	0024	86 ? 58 7XX
0085072	55-GA-89-2	5.5	223.	31.9N	81.4W	0100	86 ? 27
0085073	58-MD-16-1	4.8	366.	38.7N	76.8W	0100	86 ? 24 7XX
0085074	65-NC-51-2	8.4		35.4N	78.5W	0100	86 ? 58 73X
0085076	CF-1 NC	14.7	574.	35.2N	77.4W	0011	86 ? 24 7XX
0085078	61-MS-12-2	2.4	256.	32.1N	88.8W	0050	86 ? 41 7XX
0085079	60-VA-18-1	5.6	421.	36.8N	80.8W	0366	86 ? 24 620
0085080	47-MS-59-6	9.4		34.6N	88.6W	0030	86 ? 58 71X
0085081	65-NC-51-3	4.1		35.4N	78.5W	0100	86 ? 58 7XX
0085082	58-TN-53-4	9.8	869.	35.7N	84.2W	0320	86 ? 26 50X
0085093	64-AZ-2-18	3.7	152.	32.3N	109.8W	1300	86 ? 41 7XX
0085094	67-AZ-11-1	0.8	97.	33.0N	111.5W	0396	86 ? 50 7XX
0085095	64-AZ-2-20	2.9	172.	32.2N	109.7W	1280	86 ? 50 7XX
0085096	62-MT-3-11	9.0	498.	48.5N	109.0W	1500	86 ? 40 72X
0085097	64-AZ-2-28	2.2	233.	32.3N	109.7W	1360	86 ? 41 7XX
0085098	61-NM-7-7	2.3		32.3N	106.8W	1355	86 ? 50 73X

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA. (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0085099	59-NM-7-16	2.4	32.3N	106.8W	1380	86	? 50 7XX
0085100	67-NM-7-3	2.8	32.3N	106.8W	1400	86	? 50 7XX
0085101	60-NM-7-4	1.4	59.	32.3N	106.8W	1500	86 ? 41 7XX
0085102	59-NV-2-9	0.7	34.	36.5N	115.0W	0424	86 ? 50 73X
0085103	60-NM-7-2	3.0	13.	32.3N	106.8W	1260	86 ? 49 7XX
0085104	59-NV-9-33	1.6	181.	37.4N	115.2W	1150	86 ? 50 7XX
0085105	61-TX-195-3	6.9	667.	31.4N	103.6W	1000	86 ? 50 72X
0085106	56-NV-2-2	0.5	40.	36.2N	115.1W	0700	86 ? 50 7XX
0085107	60-NV-2-1	5.0	535.	36.6N	114.5W	0468	86 ? 50 72X
0085108	55-CA-36-3	2.7	132.	34.4N	117.0W	0915	86 ? 50 73X
0085109	53-GA-13-10	3.5	504.	31.2N	82.0W	0100	86 ? 24 73X
0085111	67-AK-51-2	35.9	994.	57.2N	135.7W	0137	86 ? 22 7XX
0085112	68-WA-10-3	5.0	246.	48.6N	118.5W	1550	86 ? 22 7XX
0085113	63-NY-45-1	10.4	625.	44.6N	75.2W	0080	86 ? 25 7XX
0085114	60-NH-5-4	19.0	1118.	43.8N	72.0W	0200	86 ? 55 73X
0085115	56-ME-2-4	7.0	549.	46.7N	68.0W	0100	86 ? 23 72X
0085116	60-NM-7-16	4.9		32.3N	106.8W	1308	86 ? 41 72X
0085118	59-TX-123-1	13.9	924.	29.9N	94.0W	0010	86 ? 55 7XX
0085120	62-TX-43-3	13.1	999.	33.4N	96.6W	0140	86 ? 31 7XX
0085121	67-CA-33-2	10.1	736.	33.9N	117.2W	0540	86 ? 41 50X
0085122	64-CA-37-8	7.0	609.	33.4N	117.4W	0044	86 ? 41 050
0086001	64-WA-14-7	45.6	1957.	46.9N	123.8W	0152	94 F 22 70X
0086002	64-WA-6-1	44.7	2434.	45.6N	122.4W	0350	94 E 22 4XX
0086003	64-WA-30-1	32.3	1975.	45.6N	122.4W	0350	94 E 22 4XX
0086004	64-WA-21-1	33.1	2337.	46.5N	122.5W	0327	94 E 55 4XX
0086005	64-WA-21-2	36.8	2404.	46.5N	122.5W	0327	94 E 55 4XX
0086006	64-WA-14-1	40.1	1596.	47.4N	123.9W	0152	94 F 22 7XX
0086007	64-WA-14-2	1.1		47.3N	123.9W	0152	94 F 22 7XX
0086008	64-WA-8-4	16.5	936.	42.1N	123.0W	0229	94 E 22 7XX
0086009	64-WA-8-5	24.6	1287.	46.4N	123.3W	0091	94 E 22 7XX
0086010	64-WA-14-3	29.0	1669.	47.1N	124.0W	0009	94 E 22 7XX
0086011	64-WA-14-4	33.8	1660.	47.6N	124.0W	0036	94 E 22 7XX
0086012	64-WA-10-2	46.1	2952.	49.0N	118.7W	0900	94 7 40 4XX
0086013	64-WA-10-3	46.2	3254.	49.0N	118.7W	1036	94 7 55 4XX
0086014	64-WA-8-2	15.2	657.	46.1N	118.3W	0183	94 7 22 7XX
0086015	64-WA-8-3	21.0	1000.	46.1N	118.3W	0177	94 7 22 7XX
0087001	57-WA-32-1	3.5	151.	47.4N	117.8W	0698	95 D 22 7XX
0087002	57-WA-32-2	3.7	211.	47.4N	117.8W	0722	95 D 22 7XX
0087003	57-WA-32-3	24.6	2068.	47.4N	117.8W	0701	95 C 40 7XX
0087004	57-WA-32-4	15.4	1221.	47.4N	117.8W	0710	95 D 30 7XX
0087005	57-WA-32-5	5.8	445.	47.4N	117.1W	0777	95 D 55 761
0087006	57-WA-32-6	5.2	448.	47.4N	117.1W	0765	95 D 55 761
0087007	57-WA-32-7	3.9	205.	47.7N	117.4W	0799	95 D 22 00X
0087008	57-WA-32-8	2.2	130.	47.7N	117.4W	0549	95 D 22 7XX
0087009	57-WA-32-9	2.2	126.	47.7N	117.4W	0503	95 D 22 7XX
0087010	57-WA-32-10	4.5	268.	47.9N	117.5W	0637	95 D 22 7XX
0087011	57-WA-32-11	3.3	198.	47.9N	117.5W	0649	95 D 22 7XX
0088001	60-WA-6-5	18.5	1243.	45.9N	122.6W	0259	96 E 22 762
0088002	60-WA-6-11	23.3	1601.	45.9N	122.7W	0259	96 E 22 762
0088003	60-WA-6-12	15.4	1037.	45.9N	122.7W	0268	96 E 22 762

Table A (continued)

SOIL DATA OF PROFILES FROM NORTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
0088004	60-WA-6-7	8.6	759.	45.6N	122.7W	0058	96 D 55 7XX
0088005	60-WA-6-8	11.2	946.	45.6N	122.7W	0064	96 D 55 7XX
0088006	60-WA-6-3	18.9	1347.	45.6N	122.7W	0142	96 E 55 7XX
0088007	60-WA-6-4	16.9	997.	45.6N	122.7W	0146	96 E 55 7XX
0088008	59-WA-6-1	10.8	820.	45.6N	122.7W	0079	96 E 55 7XX
0088009	60-WA-6-10	11.8	1166.	45.6N	122.7W	0091	96 E 55 7XX
0088010	60-WA-6-1	10.6	879.	45.6N	122.4W	0085	96 E 55 7XX
0088011	60-WA-6-2	13.2	1059.	45.6N	122.4W	0085	96 E 55 7XX
0088012	59-WA-6-3	0.1		45.8N	122.7W	0079	96 E 55 7XX
0088013	60-WA-6-9	8.3	638.	45.8N	122.7W	0087	96 E 55 7XX
0088014	59-WA-6-7	21.0	1355.	45.7N	122.6W	0463	96 E 22 40X
0088015	59-WA-6-8	17.6	1160.	45.7N	122.6W	0178	96 E 22 40X
0088016	59-WA-6-5	8.7	544.	45.8N	122.7W	0127	96 E 55 7XX
0088017	59-WA-6-6	11.6	762.	45.8N	122.7W	0130	96 E 55 7XX
0089001	131 MA	28.8	1040.	42.4N	72.1W	0250	98 E 25
0089002	132 MA	25.3	939.	42.4N	72.1W	0250	98 E 25
0089033	149 MA	34.4	967.	42.4N	72.1W	0250	98 E 25
0089004	174 MA	34.3	1312.	42.4N	72.1W	0250	98 E 23
0089005	44 MA	20.3	484.	42.4N	72.1W	0250	98 E 23
0089006	83 MA	48.3	1645.	42.4N	72.1W	0250	98 E 25
0089007	86 MA	35.5	1352.	42.4N	72.1W	0250	98 E 25
0089008	88 MA	24.9	815.	42.4N	72.1W	0250	98 E 23
0089009	99 MA	21.3	467.	42.4N	72.1W	0250	98 E 23
0090001	CT1 CN	122.5	2150.	75.0N	135.0W	50	108 E 44 8XX
0090002	CT2 CN	96.3	2343.	58.0N	95.0W	50	108 E 44 8XX
0090003	CT3 CN	432.9	19660.	58.0N	95.0W	50	108 E 44 8XX
0091001	1 MX	30.9	1596.	19.2N	98.7W	2480	120 ? 35X
0091002	2 MX	13.3	641.	19.2N	98.7W	2640	120 ? 35X
0091003	3 MX	15.9	882.	19.2N	98.7W	2840	120 ? 35X
0091004	4 MX	36.6	1772.	19.2N	98.7W	3090	120 ? 35X
0091005	5 MX	29.9	1563.	19.2N	98.7W	3270	120 ? 35X
0091006	6 MX	53.7	1992.	19.2N	98.7W	3300	120 ? 35X
0091007	7 MX	33.5	1420.	19.2N	98.7W	3650	120 ? 35X
0092001	DB1 BC	5.9	280.	50.1N	124.0W	0510	121 ? 583
0092002	DB2 BC	8.3	434.	50.1N	124.0W	0510	121 ? 583
0092003	DB3 WA	10.9	685.	47.8N	121.8W	0035	121 ? 7XX
0092004	DB4 WA	14.1	802.	47.8N	121.8W	0035	121 ? 7XX
0093001	55-NH-8-1	8.6	844.	42.9N	71.1W	0100	110 ? 583
0093002	55-NH-8-3	17.7	1133.	43.0N	71.1W	0100	110 ? 583
0093003	60-NH-5-8	11.8	1026.	44.3N	71.8W	0500	110 ? 583
0093004	58-CT-2-1	20.2	502.	41.8N	72.7W	0244	110 ? 583
0093005	58-CT-7-1	5.3	678.	41.8N	72.5W	0230	110 ? 583

Table A (continued)

SOIL DATA OF PROFILES FROM SOUTH AMERICA

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
1001001	IP01BZ	10.5	837.	2.8S	59.8W	100	17 Z 29
1001002	IP02BZ	9.5	701.	2.8S	59.8W	100	17 Z 29
1001003	IP03BZ	10.5	843.	2.8S	59.8W	100	17 Z 29
1001004	IP04BZ	9.1	778.	2.8S	59.8W	100	17 Z 29
1001005	IP05BZ	10.1	936.	2.8S	59.8W	100	17 Z 29
1001006	IP06BZ	11.6	1000.	2.8S	59.8W	100	17 Z 29
1001007	IP07BZ	7.8	642.	2.8S	59.8W	100	17 Z 29
1001008	IP08BZ	11.7	889.	2.8S	59.3W	100	17 Z 29
1001009	IP11BZ	6.1	402.	2.8S	59.3W	100	17 Z 29
1001010	IP12BZ	6.8	450.	2.8S	59.3W	100	17 Z 29
1001011	IP13BZ	7.3	647.	2.8S	59.3W	100	17 Z 29
1001012	IP14BZ	6.0	756.	2.8S	59.3W	100	17 Z 29
1001013	IP16BZ	12.9	696.	2.8S	59.3W	100	17 Z 29
1001014	RN 1BZ	4.5	440.	0.1N	68.4W	100	18 Z 29
1001015	RN02BZ	3.8	280.	0.1N	68.4W	100	18 Z 29
1001016	RN03BZ	10.9	966.	0.1N	68.4W	100	18 Z 29
1001017	RN04BZ	9.4	855.	0.1N	68.4W	100	18 Z 29
1001018	RN05BZ	3.5	331.	0.1N	68.4W	100	18 Z 29
1001019	RN06BZ	7.1	602.	0.1N	68.4W	100	18 Z 29
1001020	RN07BZ	22.0	1846.	0.1N	68.4W	100	18 Z 29
1001021	VS05BZ	10.4	728.	1.5S	50.7W	0100	59 Z 29
1001022	VS06BZ	5.0	448.	1.5S	50.7W	0100	59 Z 29
1001023	VS07BZ	22.0	462.	1.5S	50.7W	0100	59 Z 29
1001024	PV01BZ	20.2	1542.	9.0S	63.7W	0100	50 Z 29
1001025	PV02BZ	12.9	879.	9.0S	63.7W	0100	50 Z 29
1001026	PV03BZ	33.6	1511.	9.0S	63.7W	0100	50 Z 29
1001027	PV04BZ	59.6	2310.	9.0S	63.7W	0100	50 Z 29
1001028	PV05BZ	27.8	1164.	9.0S	63.7W	0100	50 Z 29
1001029	PV06BZ	23.0	1468.	9.0S	63.7W	0100	50 Z 29
1001030	PV11BZ	9.1	1154.	9.0S	63.7W	0100	50 Z 29
1002001	SM 2BZ	4.1		1.8S	53.7W		28 \$ 29
1002002	SM 3BZ	5.5		2.1S	56.4W		28 \$ 29
1002003	SM 4BZ	7.1		2.2S	49.2W		28 \$ 29
1002004	SM 5BZ	5.6		1.7S	46.0W		28 \$ 29
1002005	SM 6BZ	1.0		1.5S	46.5W		28 Z 29
1002006	SM 7BZ	14.1		1.5S	46.5W		28 \$ 29
1002007	SM 8BZ	6.8		2.7S	47.7W		28 \$ 29
1002008	SM 9BZ	1.8		3.6S	47.7W		28 \$ 29
1002009	SM10BZ	4.5		1.3S	49.8W		28 \$ 29
1002010	SM11BZ	14.2		1.1S	49.7W		28 \$ 29
1002011	SM13BZ	3.9		2.0S	53.7W		28 \$ 29
1002012	SM14BZ	6.9		6.2S	48.3W	0350	28 \$ 29
1002013	SM15BZ	5.9		6.2S	48.3W	0350	28 \$ 29
1002014	SM16BZ	5.9		6.2S	48.3W	0350	28 \$ 29
1002015	SM17BZ	1.6		2.8S	54.5W		28 Z 29
1002016	SM18BZ	9.2		0.6S	49.2W		28 \$ 29
1002017	SM19BZ	12.6		2.5S	47.8W		28 \$ 29
1002018	SM20BZ	8.1		2.5S	47.8W		28 \$ 29
1002019	SM21BZ	10.2		3.1S	47.3W		28 \$ 29
1002020	SM23BZ	6.8		0.0S	51.1W		28 \$ 29

Table A (continued)

SOIL DATA OF PROFILES FROM SOUTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
1002021	SM24BZ	9.8	1075.	4.3S	47.8W	0350	28 \$ 29
1002022	SM25BZ	6.0	477.	1.8S	47.5W		28 \$ 29
1002023	SM26BZ	10.5	1313.	2.1S	47.7W		28 \$ 29
1002024	SM27BZ	5.4	573.	2.1S	47.7W		28 \$ 29
1002025	SM29BZ	8.0	1031.	2.7S	47.7W		28 \$ 29
1002026	SM31BZ	4.2	372.	5.1S	47.7W		28 Z 43
1002027	SM32BZ	5.8	566.	6.2S	48.3W	0350	28 Z 43
1002028	SM33BZ	3.4	325.	5.6S	48.1W	0350	28 Z 43
1002029	SM34BZ	3.7	384.	0.9N	52.1W	0100	28 Z 43
1002030	SM35BZ	6.6	728.	6.2S	48.3W	0350	28 Z 43
1002031	SM36BZ	5.7	1229.	10.1S	67.7W	0350	28 Z 43
1002032	SM37BZ	6.4	813.	6.2S	40.3W	0350	28 Z 43
1002033	SM38BZ	10.4	1054.	3.8S	47.7W	0350	28 Z 43
1002034	SM39BZ	6.1	645.	3.4S	47.7W	0350	28 Z 43
1002035	SM40BZ	6.4	702.	2.1S	47.7W	0350	28 Z 43
1002036	SM41BZ	9.1	980.	5.2S	47.5W	0350	28 Z 43
1002037	SM42BZ	7.9	720.	2.1S	47.7W	0100	28 \$ 29
1002038	SM43BZ	15.5	1087.	0.8S	48.7W	0100	28 \$ 29
1002039	SM44BZ	5.4	618.	0.8S	48.7W	0100	28 \$ 29
1002040	SM45BZ	7.8	1041.	0.8S	48.7W	0100	28 \$ 29
1002041	SM46BZ	5.7	664.	0.8S	48.7W	0100	28 \$ 29
1002042	SM47BZ	13.9	999.	2.1S	47.7W	0100	28 \$ 29
1002043	SM49BZ	124.0	6589.	2.2S	49.2W	0100	28 45
1002044	SM50BZ	13.4	1937.	2.0S	53.7W	0100	28 \$ 29
1002045	SM51BZ	21.0	836.	2.0S	53.7W	0100	28 \$ 29
1002046	SM52BZ	8.8	1053.	0.8S	48.7W	0100	28 45
1002047	SM53BZ	12.1	877.	2.7S	54.7W	0100	28 \$ 29
1003001	101BZ	13.3	1171.	2.5S	48.2W	0100	53 Z 29
1003002	102BZ	8.3	752.	2.5S	48.2W	0100	53 Z 29
1003003	103BZ	4.2	332.	2.5S	48.2W	0100	53 Z 29
1003004	104BZ	8.0	777.	0.9S	47.2W	0010	58 Z 29
1003005	105BZ	3.9	493.	0.9S	47.2W	0010	58 Z 43
1003006	106BZ	3.5	307.	0.9S	47.2W	0010	58 Z 43
1003007	107BZ	4.6	309.	0.9S	47.2W	0010	58 Z 29
1003008	108BZ	4.2	265.	0.9S	47.2W	0010	58 Z 43
1003009	109BZ	9.3	1549.	0.9S	47.2W	0010	58 45
1003010	110BZ	11.2	1043.	0.9S	47.2W	0010	58 45
1003011	111BZ	22.3	1583.	0.9S	47.2W	0010	58 45
1003012	112BZ	10.2	1072.	3.2S	60.3W	0100	49 Z 29
1003013	113BZ	8.5	1218.	3.2S	60.3W	0100	49 Z 29
1003014	114BZ	11.4	820.	3.2S	60.3W	0100	49 Z 29
1003015	115BZ	6.8	715.	3.2S	60.3W	0100	49 Z 29
1003016	116BZ	6.0	507.	3.2S	60.3W	0100	49 Z 29
1003017	117BZ	13.3	1112.	3.2S	60.3W	0100	49 Z 29
1003018	118BZ	0.9	149.	3.2S	60.3W	0100	49 Z 43
1003019	119BZ	4.7	396.	3.2S	60.3W	0100	49 Z 29
1003020	120BZ	10.5	1486.	3.2S	60.3W	0100	49 Z 29
1003021	121BZ	7.7	1084.	3.2S	60.3W	0100	49 Z 29
1003022	122BZ	8.7	1126.	3.2S	60.3W	0100	49 Z 29
1003023	123BZ	7.4	1080.	3.2S	60.3W	0100	49 Z 29

Table A (continued)

SOIL DATA OF PROFILES FROM SOUTH AMERICA (CONT.)

PROFILE NUMBER		CARBON	NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
		KG/M**2	G/M**2			M		A	B	C
1003024	124BZ	12.0	2076.	3.2S	60.3W	0100	49	Z	29	
1003025	125BZ	22.8	1965.	3.2S	60.3W	0100	49	Z	29	
1003026	126BZ	17.1	1103.	3.2S	60.3W	0100	49	Z	29	
1003027	127BZ	6.3	770.	3.2S	52.2W	0100	50	Z	29	
1003028	128BZ	13.7	917.	3.2S	52.2W	0100	50	Z	29	
1003029	129BZ	7.2	946.	3.2S	52.2W	0100	50	Z	29	
1003030	130BZ	10.3	1039.	3.2S	52.2W	0100	50	Z	29	
1003031	131BZ	4.4	415.	3.2S	52.2W	0100	50	Z	29	
1003032	132BZ	8.5	589.	6.9S	42.8W	0350	57	Z	29	
1003033	133BZ	2.9	372.	6.9S	42.8W	0350	57	Y	49	
1003034	134BZ	4.4	579.	6.9S	42.8W	0350	57	Z	29	
1003035	135BZ	4.5	651.	6.9S	42.8W	0350	57	Z	29	
1003036	136BZ	1.5	186.	6.9S	42.8W	0350	57	Z	29	
1003037	137BZ	2.9	609.	6.9S	42.8W	0350	57	Z	43	
1003038	138BZ	6.8	636.	0.3N	51.7W	0150	54	Z	29	
1003039	139BZ	7.7	687.	0.3N	51.7W	0150	54	Z	29	
1003040	140BZ	6.6	515.	0.3N	51.7W	0150	54	Z	29	
1003041	141BZ	5.0	511.	0.3N	51.7W	0150	54	Z	29	
1003042	142BZ	7.5	877.	0.3N	51.7W	0150	54	Z	29	
1003043	143BZ	9.3	965.	0.3N	51.7W	0150	54	Z	29	
1003044	144BZ	9.5	1046.	0.3N	51.7W	0040	54	Z	29	
1003045	145BZ	13.6	1438.	2.5S	60.0W	0150	55	Z	29	
1003046	146BZ	10.1	1252.	2.5S	60.0W	0150	55	Z	29	
1003047	147BZ	7.2	612.	2.5S	60.0W	0150	55	Z	29	
1003048	148BZ	6.4	620.	2.5S	60.0W	0150	55	Z	29	
1003049	149BZ	4.3	492.	2.5S	60.0W	0150	55	Z	29	
1003050	150BZ	4.9	508.	2.5S	60.0W	0070	55	Z	29	
1003051	151BZ	7.2	524.	2.5S	60.0W	0070	55	Z	29	
1003052	152BZ	1.9	250.	2.5S	60.0W	0040	55	Y	49	
1003053	153BZ	1.2	173.	2.5S	60.0W	0040	55	Y	49	
1003054	154BZ	10.6	1047.	1.9S	54.8W	0100	52	Z	29	
1003055	155BZ	9.9	1009.	1.9S	54.8W	0100	52	Z	29	
1003056	156BZ	10.8	1016.	1.9S	54.8W	0100	52	Z	29	
1003057	157BZ	5.1	711.	1.9S	54.8W	0100	52	Z	29	
1003058	158BZ	7.7	588.	1.9S	54.8W	0100	52	Z	29	
1003059	159BZ	8.4	916.	1.9S	54.8W	0100	52	Z	29	
1003060	160BZ	6.5	560.	1.9S	54.8W	0100	52	Z	29	
1003061	161BZ	5.8	456.	1.9S	54.8W	0100	52	Z	29	
1003062	162BZ	12.5	972.	1.9S	54.8W	0100	52	Z	29	
1003063	163BZ	2.6	326.	1.9S	54.8W	0100	52	Y	49	
1003064	164BZ	6.7	680.	1.9S	54.8W	0100	52	Z	29	
1003065	165BZ	6.4	947.	1.9S	54.8W	0100	52	Z	29	
1003066	166BZ	7.0	739.	1.9S	54.8W	0100	52	Z	29	
1003067	167BZ	10.4	728.	1.8S	50.2W	0100	59	Z	29	
1003068	168BZ	4.4	384.	1.8S	50.2W	0100	59	Z	29	
1003069	169BZ	21.5	1712.	1.8S	50.2W	0100	59	Z	29	
1003070	170BZ	4.0	538.	4.0S	38.1W	0350	48	Z	29	
1003071	171BZ	3.0	1395.	4.0S	38.1W	0350	48	Z	29	
1003072	172BZ	5.5	833.	4.0S	38.1W	0350	48	Z	29	
1003073	173BZ	10.4	1495.	2.5S	54.1W	0100	51	Z	29	

Table A (continued)

SOIL DATA OF PROFILES FROM SOUTH AMERICA (CONT.)

PROFILE NUMBER		CARBON	NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
		KG/M**2	G/M**2					A	B	C
1003074	174BZ	10.0	1321.	2.5S	54.1W	0100	51	Z	29	
1003075	175BZ	12.0	1313.	2.5S	54.1W	0100	51	Z	29	
1003076	176BZ	6.2	908.	2.5S	54.1W	0100	51	Z	29	
1003077	177BZ	10.2	1505.	2.5S	54.1W	0100	51	Z	29	
1003078	178BZ	41.6	3214.	2.5S	54.1W	0100	51	Z	29	
1003079	179BZ	7.2	583.	1.6S	48.2W	0100	58	Z	29	
1003080	180BZ	7.0	559.	1.6S	48.2W	0100	58	Z	29	
1003081	181BZ	7.3	668.	1.6S	48.2W	0100	58	Z	29	
1003082	182BZ	8.2	793.	1.6S	48.2W	0100	58	Z	29	
1003083	183BZ	9.1	708.	1.6S	48.2W	0100	58	Z	29	
1003084	184BZ	4.9	387.	1.6S	48.2W	0100	58	Y	49	
1003085	185BZ	5.5	325.	1.6S	48.2W	0100	58	Y	49	
1003086	186BZ	4.9	475.	1.6S	48.2W	0100	58	Y	49	
1003087	187BZ	7.4	740.	1.6S	48.2W	0100	58	Z	29	
1003088	188BZ	14.5	918.	1.6S	48.2W	0100	58	Z	29	
1003089	189BZ	28.1	2386.	1.6S	48.2W	0100	58	Z	29	
1003090	190BZ	11.6	1003.	1.6S	48.2W	0100	58	Z	29	
1003091	191BZ	10.7	995.	1.6S	48.2W	0100	58	Z	29	
1003092	192BZ	19.5	1887.	1.6S	48.2W	0100	58	Z	29	
1003093	193BZ	6.6	544.	1.6S	48.2W	0100	58	Z	29	
1003094	194BZ	6.4	747.	2.7S	45.7W	0100	56	Z	29	
1003095	195BZ	4.6	456.	2.7S	45.7W	0100	56	Z	29	
1003096	196BZ	5.9	733.	2.7S	45.7W	0100	56	Z	29	
1003097	197BZ	3.7	1598.	2.7S	45.7W	0100	56	Z	29	
1003098	198BZ	3.3	611.	2.7S	45.7W	0100	56	Z	29	
1003099	199BZ	5.8	557.	2.7S	45.7W	0100	56	Z	29	
1003100	200BZ	5.2	585.	2.7S	45.7W	0100	56	Z	29	
1003101	201BZ	3.7	519.	2.7S	45.7W	0100	56	Z	29	
1003102	202BZ	4.1	408.	2.7S	45.7W	0100	56	Y	49	
1003103	203BZ	5.1	760.	2.7S	45.7W	0100	56	Y	49	
1003104	204BZ	3.4	522.	2.7S	45.7W	0100	56	Y	49	
1003105	205BZ	3.6	576.	2.7S	45.7W	0100	56	Y	49	
1003106	206BZ	6.1	1063.	2.7S	45.7W	0100	56	Z	29	
1003107	207BZ	4.5		4.2S	40.6W	0350	60	Z	29	
1003108	208BZ	1.3	238.	4.2S	40.6W	0350	60	Y	49	
1003109	209BZ	10.7	490.	4.2S	40.6W	0350	60	Z	29	
1003110	210BZ	3.2	434.	4.2S	40.6W	0350	60	Z	29	
1003111	211BZ	5.4	543.	4.2S	40.6W	0350	60	Z	29	
1003112	212BZ	5.3	865.	4.2S	40.6W	0350	60	Z	29	
1003113	213BZ	3.9	451.	4.2S	40.6W	0350	60	Z	29	
1003114	214BZ	1.8	320.	4.2S	40.6W	0350	60	Z	29	
1003115	215BZ	5.3	556.	4.2S	40.6W	0350	60		45	
1003116	216BZ	5.7		4.2S	40.6W	0350	60	Z	29	
1003117	217BZ	9.9	768.	4.2S	40.6W	0350	60	Z	29	
1004001	U508CL	17.2	864.	7.2N	76.5W	0100	27	#	29	
1004002	U509CL	25.2	475.	7.2N	76.5W	0100	27	#	29	
1004003	U517CL	19.3	814.	7.2N	76.5W	0100	27	#	29	
1004004	U518CL	19.4	525.	7.2N	76.5W	0100	27	#	29	
1004005	U520CL	12.4	654.	7.2N	76.5W	0100	27	#	29	
1004006	U521CL	35.6	910.	7.2N	76.5W	0100	27	#	29	

Table A (continued)

SOIL DATA OF PROFILES FROM SOUTH AMERICA (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
1004007 U525CL	19.9	414.	7.2N	76.5W	0100	27	#	29	
1004008 U528CL	24.6	610.	7.2N	76.5W	0100	27	#	29	
1004009 U529CL	20.7	830.	7.2N	76.5W	0100	27	#	29	
1004010 U530CL	14.0	450.	7.2N	76.5W	0100	27	#	29	
1004011 U531CL	36.9	948.	7.2N	76.5W	0100	27	#	29	
1006001 511196 CHI	11.1	727.	53.2S	70.9W	305	37	D	25	
1007001 AL1 CL	27.9		3.9N	77.0W	0100	70	Z	29	
1007002 AL2 CL	9.5		3.9N	77.0W	0100	70	Z	29	
1008001 50 CL	32.4	1842.	6.3N	73.5W	2400	75	?	27	
1008002 51 CL	25.9	1336.	6.3N	73.5W	2400	75	?	27	
1008003 52 CL	38.9	2841.	6.3N	73.5W	2370	75	?	27	
1008004 53 CL	28.8	1518.	6.3N	73.5W	2420	75	?	27	
1008005 54 CL	22.8	1368.	6.3N	73.5W	2400	75	?	27	
1008006 55 CL	39.3	2081.	6.3N	73.5W	2360	75	?	27	
1008007 56 CL	36.7	2311.	6.3N	73.5W	2400	75	?	27	
1009001 1.180 BZ	17.8	2541.	22.7S	45.5W	1525	77	K	24	640
1009002 1.181 BZ	9.0	483.	22.7S	45.5W	1525	77	K	24	640
1009003 1.182 BZ	11.5	977.	22.7S	45.5W	1580	0	K	24	640
1009004 1.183 BZ	17.1	873.	22.7S	45.5W	1900	77	K	24	640
1009005 1.184 BZ	12.2	927.	22.7S	45.5W	1620	77	K	24	640
1009006 1.185 BZ	8.4	553.	22.7S	45.5W	1700	77	K	24	640
1009007 1.186 BZ	12.5	835.	22.7S	45.5W	1540	77	K	24	640
1009008 1.187 BZ	11.2	578.	22.7S	45.5W	1500	77	K	24	640
1009009 1.190 BZ	29.4	2130.	22.7S	45.5W	1200	77	K	24	
1009010 F11 BZ	47.5		22.7S	45.5W	1700	77	K	24	
1009011 P24 BZ	11.4		22.7S	45.5W	1500	77	K	24	
1009012 P39 BZ	4.8		22.7S	45.5W	1300	77	K	24	
1009013 P62 BZ	12.1	700.	22.7S	45.5W	1200	77	K	24	
1010001 B17.12 BZ	19.3	2280.	20.3S	56.4W	0260	82	R	32	68X
1010002 B17.35 BZ	14.4	1583.	22.3S	54.8W	0350	82	R	32	4XX
1010003 B17.39 BZ	13.3	1571.	22.3S	54.8W	0420	82	R	32	4XX
1010004 B17.58 BZ	5.8	407.	21.5S	56.2W	0350	82	R	32	70X
1010005 B17.59 BZ	4.9	580.	23.8S	55.0W	0400	82	R	32	70X
1010006 B17.60 BZ	5.2	443.	21.8S	54.3W	0470	82	R	43	70X
1010007 B17.63 BZ	4.6	502.	20.6S	54.3W	0350	82	R	43	70X
1010008 B17.65 BZ	4.8	550.	20.7S	51.7W	0380	82	R	43	70X
1010009 B17.74 BZ	6.7	799.	21.7S	58.0W	0170	82	R	29	7XX
1011086 69B BZ	10.6	1196.	3.3S	60.6W	0050	86	?	26	7XX
1011092 DPFS83GO BZ	20.3	1039.	16.2S	44.5W	1100	86	?	58	61X
1012001 1 CL	13.2		3.5N	74.0W	0400	106	#	32	
1012002 2 CL	13.9		3.5N	74.0W	0400	106	#	29	
1012003 3 CL	9.8		3.5N	74.0W	0400	106	#	32	
1012004 4 CL	4.1		3.5N	74.0W	0400	106	#	32	
1012005 5 CL	8.8		3.5N	74.0W	0400	106	#	32	
1012006 6 CL	9.0		3.5N	74.0W	0400	106	#	32	
1012007 7 CL	5.3		3.5N	74.0W	0400	106	#	58	
1012008 8 CL	5.8		3.5N	74.0W	0400	106	#	58	
1012009 9 CL	7.0		3.5N	74.0W	0400	106	#	32	
1013001 01 CL	19.9	1183.	6.5N	77.0W	0130	107	Y	29	
1013002 02 CL	11.5	1856.	6.5N	77.0W	0160	107	Y	56	

Table A (continued)

SOIL DATA OF PROFILES FROM SOUTH AMERICA (CONT.)

PROFILE NUMBER	CARBON		NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE CATEGORY		
	KG/M**2						A	B	C
1013003 03 CL	24.2	3203.	6.5N	77.0W	0185	107	Y	29	
1013004 04 CL	12.4	1395.	6.5N	77.0W	0100	107	Y	29	
1013005 05 CL	5.9	671.	6.5N	77.0W	0100	107	Y	29	
1013006 06 CL	6.9	908.	6.5N	77.0W	0141	107	Y	29	
1013007 07 CL	7.4	1224.	6.5N	77.0W	0100	107	Y	29	
1013008 08 CL	10.5	1140.	6.5N	77.0W	0138	107	Y	29	
1013009 09 CL	7.8	1183.	6.5N	77.0W	0100	107	Y	58	
1013010 10 CL	7.4	922.	6.5N	77.0W	0400	107	Y	29	
1013011 11 CL	4.6	385.	6.5N	77.0W	0120	107	Y	29	
1013012 12 CL	6.4	550.	6.5N	77.0W	0320	107	Y	29	
1013013 13 CL	12.3	1491.	6.5N	77.0W	0420	107	Y	29	
1013014 14 CL	5.5	513.	6.5N	77.0W	0520	107	Y	29	
1013015 15 CL	11.5	583.	6.5N	77.0W	0620	107	Y	29	
1013016 16 CL	2.6	190.	6.5N	77.0W	0730	107	Y	29	
1013017 17 CL	9.4	679.	6.5N	77.0W	0820	107	Y	29	
1013018 18 CL	6.2	441.	6.5N	77.0W	0920	107	Y	29	
1013019 19 CL	8.0	884.	6.5N	77.0W	1020	107	Y	29	
1013020 20 CL	9.4	786.	6.5N	77.0W	1120	107	Y	29	
1013021 21 CL	7.9	777.	6.5N	77.0W	1220	107	Y	29	
1013022 22 CL	6.5	900.	6.5N	77.0W	1420	107	Y	29	
1013023 23 CL	6.2	419.	6.5N	77.0W	1620	107	Y	29	
1013024 24 CL	11.4	855.	6.5N	77.0W	1840	107	Y	29	
1013025 25 CL	31.4	1356.	6.5N	77.0W	2140	107	Y	29	
1013026 26 CL	18.6	1357.	6.5N	77.0W	0100	107	Y	29	

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
2001001 370 TL	10.1	826.	18.3N	98.1E	0700	30	\$ 29
2001002 371 TL	11.5	977.	18.3N	98.1E	0700	30	\$ 29
2001003 372 TL	7.8	601.	18.3N	98.1E	0700	30	\$ 29
2001004 373 TL	8.1	710.	18.3N	98.1E	0700	30	\$ 29
2001005 374 TL	9.6	802.	18.3N	98.1E	0700	30	\$ 29
2001006 375 TL	14.7	915.	18.3N	98.1E	0700	30	\$ 29
2002001 381A TL	5.0	304.	14.5N	101.9E	400	32	\$ 29
2002002 381B1TL	8.3	606.	14.5N	101.9E	400	32	\$ 29
2002003 381B2TL	8.1	690.	14.5N	101.9E	400	32	\$ 29
2002004 381B3TL	9.2	657.	14.5N	101.9E	400	32	\$ 29
2002005 381C TL	3.5	219.	14.5N	101.9E	400	32	\$ 29
2002006 382A TL	3.8	294.	14.5N	101.9E	400	32	\$ 29
2002008 382B2TL	8.3	847.	14.5N	101.9E	400	32	\$ 29
2002009 382B3TL	9.5	852.	14.5N	101.9E	400	32	\$ 29
2002010 382C TL	2.9	223.	14.5N	101.9E	400	32	\$ 29
2002011 383A TL	4.0	290.	14.5N	101.9E	400	32	\$ 29
2002012 383B1TL	8.2	684.	14.5N	101.9E	400	32	\$ 29
2002013 383B2TL	8.3	718.	14.5N	101.9E	400	32	\$ 29
2002014 383B3TL	8.5	746.	14.5N	101.9E	400	32	\$ 29
2002015 383C TL	2.9	205.	14.5N	101.9E	400	32	\$ 29
2002016 384A TL	3.5	276.	14.5N	101.9E	400	32	\$ 29
2002017 384B1TL	7.4	661.	14.5N	101.9E	400	32	\$ 29
2002018 384B2TL	10.6	912.	14.5N	101.9E	400	32	\$ 29
2002019 384B3TL	10.5	742.	14.5N	101.9E	400	32	\$ 29
2002020 384C TL	3.3	255.	14.5N	101.9E	400	32	\$ 29
2002021 385B1TL	4.9	447.	14.5N	101.9E	400	32	\$ 29
2002022 385B2TL	4.9	450.	14.5N	101.9E	400	32	\$ 29
2002023 385B3TL	4.8	407.	14.5N	101.9E	400	32	\$ 29
2002024 386B1TL	7.0	652.	14.5N	101.9E	400	32	\$ 29
2002025 386B2TL	6.3	600.	14.5N	101.9E	400	32	\$ 29
2002026 386B3TL	7.2	626.	14.5N	101.9E	400	32	\$ 29
2002027 387 TL	28.3	2203.	14.5N	101.9E	400	32	\$ 29
2003001 388 TL	6.4	278.	16.9N	99.1E	0200	26	\$ 29
2003002 389 TL	3.0	268.	16.9N	99.1E	0200	26	\$ 29
2003003 390 TL	4.7	251.	16.9N	99.1E	0200	26	\$ 29
2003004 391 TL	6.1	456.	19.4N	98.9E	0600	26	\$ 29
2003005 391A TL	2.2	147.	19.4N	98.9E	0600	26	\$ 29
2003006 392 TL	4.8	391.	19.3N	99.0E	0600	26	\$ 29
2003007 392A TL	1.4	105.	19.3N	99.0E	0600	26	\$ 29
2003008 393 TL	6.1	443.	19.3N	99.0E	0600	26	\$ 29
2003009 393A TL	2.1	136.	19.3N	99.0E	0600	26	\$ 29
2003010 394 TL	4.2	329.	19.3N	99.0E	0600	26	\$ 29
2003011 394A TL	1.6	89.	19.3N	99.0E	0600	26	\$ 29
2003012 395 TL	9.0	642.	18.8N	98.9E	1600	26	\$ 29
2003013 395A TL	2.2	284.	18.8N	98.9E	1600	26	\$ 29
2003014 396 TL	14.7	870.	18.8N	98.9E	1600	26	\$ 29
2003015 396A TL	4.0	326.	18.8N	98.9E	1500	26	\$ 29
2003016 396B TL	4.5	323.	18.8N	98.9E	1500	26	\$ 29
2003017 396ABTL	0.9	60.	18.8N	98.9E	1500	26	\$ 29
2003018 397 TL	2.0	226.	18.8N	99.9E	0900	26	\$ 29

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
2003019 397A TL	0.8	58.	18.8N	99.9E	0900	26	\$ 29
2003020 398 TL	5.6	550.	18.8N	99.9E	0300	26	\$ 29
2003021 398A TL	1.7	105.	18.8N	99.9E	0300	26	\$ 29
2003022 399 TL	2.9	282.	18.8N	99.9E	0300	26	\$ 29
2003023 399A TL	1.4	63.	18.8N	99.9E	0300	26	\$ 29
2003024 400 TL	4.4	407.	18.8N	99.9E	0300	26	\$ 29
2003025 400A TL	1.2	63.	18.8N	99.9E	0300	26	\$ 29
2003026 401 TB	2.9	216.	18.8N	99.9E	0300	26	\$ 29
2003027 401A TL	0.9	59.	18.8N	99.9E	0300	26	\$ 29
2003028 402 TL	3.5	254.	18.8N	99.9E	0300	26	\$ 29
2003029 402A TL	1.0	69.	18.8N	99.9E	0300	26	\$ 29
2004001 416VN	24.6	1850.	10.5N	107.0E	0001	32	\$ 29
2004005 420VN	4.4	277.	11.4N	106.9E	0200	32	\$ 29
2004006 420AVN	9.5	560.	11.4N	106.9E	0200	32	\$ 29
2004009 423AVN	14.5	2483.	11.4N	106.9E	200.	32	\$ 29
2004010 423BVN	11.9	2473.	11.4N	106.9E	200.	32	\$ 29
2004011 423CVN	8.9	2483.	11.4N	106.9E	200.	32	\$ 29
2004012 423DVN	10.9	2372.	11.4N	106.9E	200.	32	\$ 29
2005002 425 TL	21.4	497.	12.3N	102.2E	0000	32	45
2005006 428AVN	9.6	430.	10.4N	107.1E	0002	32	45
2005007 428BVN	6.8	242.	10.4N	107.1E	0002	32	45
2005008 428CVN	11.9	426.	10.4N	107.1E	0002	32	45
2005014 434 TL	13.3	1062.	18.5N	99.7E	1000	32	\$ 29
2007001 406 TL	0.0	1274.	14.5N	101.9E	0400	47	29
2007002 410 TL	0.0	1670.	14.5N	101.9E	0400	47	29
2007003 411 TL	0.0	804.	14.5N	101.9E	0400	47	29
2007004 412 TL	0.0	310.	14.5N	101.9E	0400	47	43
2007005 413 TL	0.0	342.	14.5N	101.9E	0400	47	43
2007006 414 TL	0.0	249.	14.5N	101.9E	0400	47	43
2008001 T101 SB	14.8	631.	73.0N	121.6E	0050	41	2 53
2008002 T107 SB	22.2		73.0N	121.6E	0050	41	2 53
2009001 T118 SB	12.6		73.0N	120.0E	0010	41	2 53
2009002 T119 SB	9.0		73.0N	120.0E	0010	41	2 53
2009003 T126 SB	8.7	584.	73.0N	120.0E	0010	41	2 53
2009004 T93 SB	4.7		73.0N	121.7E	0225	41	2 53
2010001 T84 SB	2.5		72.3N	140.0E	0050	41	2 53
2010002 T86 SB	22.3		72.3N	140.0E	0050	41	2 53
2011001 T175 SB	8.6	1019.	72.3N	140.0E	0050	41	2 53
2011002 T176 SB	4.6		72.3N	140.0E	0050	41	2 53
2011003 T70 SB	12.3	570.	72.3N	140.0E	0050	41	2 53
2011004 T71 SB	8.9	389.	72.3N	140.0E	0050	41	2 53
2012001 115RS SB	6.0		52.3N	116.0E	1240	0	7 20
2012002 5S SB	11.0		52.3N	116.0E	0900	41	7 20
2012003 122RS SB	9.5		52.3N	116.0E	1150	41	7 20
2012004 13S SB	14.2		52.3N	116.0E	0900	41	7 20
2012005 17S SB	10.2		52.3N	116.0E	0900	41	7 20
2013001 12 SB	6.6		52.3N	116.0E	1450	41	7 20
2014001 116 SB	3.8		52.3N	116.0E	1200	41	7 20
2014002 6 SB	4.6		52.3N	116.0E	0900	41	7 20
2014003 119 SB	7.4		52.3N	116.0E	0900	41	7 20

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
2015001 113RS SB	4.8		52.3N	116.0E	1100	41	7 20
2015002 105RS SB	9.6		52.3N	116.0E	1000	41	7 20
2016001 124RS SB	7.7		53.6N	115.6E	0900	41	7 20
2016002 118RS SB	4.9		53.6N	115.6E	0900	41	7 20
2016003 9S SB	8.1		53.6N	115.6E	0780	41	7 20
2017001 123RS SB	2.9		53.6N	115.6E	0900	41	7 20
2017002 3S SB	5.6		53.6N	115.6E	0900	41	7 20
2017003 106RS SB	6.1		53.6N	115.6E	1000	41	7 20
2017004 2S SB	4.6		53.6N	115.6E	0900	41	7 20
2018001 234 SB	9.1	854.	55.8N	124.9E	1000	41	8 21
2018002 248 SB	7.9	301.	57.5N	125.0E	1000	41	8 21
2018003 32 SB	3.7	209.	56.0N	125.0E	1000	41	8 21
2019001 218 SB	10.5	488.	58.7N	125.4E	0750	41	7 21
2019002 152 SB	11.8	567.	56.9N	124.9E	0750	41	7 21
2020001 230 SB	12.3		54.2N	124.5E	0400	41	7 21
2020002 398 SB	9.4	564.	54.3N	124.8E	0400	41	7 21
2021001 82 SB	11.9	238.	60.1N	151.0E	0120	41	7 21
2021002 80 SB	9.6	274.	58.5N	151.2E	0065	41	7 21
2022001 19 SB	8.6	566.	60.1N	150.8E	0280	41	7 22
2022002 194 SB	11.3	867.	55.0N	126.0E	0200	40	7 21
2023001 58 SB	6.7	428.	60.0N	151.0E	0280	41	3 21
2023002 18 SB	14.8	420.	60.0N	151.0E	0200	41	3 21
2023003 76A SB	27.0	666.	59.0N	151.5E	0125	41	3 21
2023004 44 SB	10.4		59.9N	154.2E	0225	41	7 21
2024001 72 SB	16.6	386.	59.0N	154.5E	0375	41	7 21
2025001 46 SB	13.4	600.	60.0N	151.0E	0870	41	3 21
2026001 7.01SB	6.6	1502.	59.2N	68.8E	200.	13	7 60
2026002 7.02SB	8.2	1119.	58.2N	68.2E	200.	13	7 60
2026003 7.03SB	3.0	322.	57.0N	75.2E	200.	13	7 60
2026004 7.04SB	2.4	147.	57.2N	73.8E	200.	13	7 60
2026005 7.05SB	2.1	170.	57.2N	73.8E	200.	13	7 60
2026006 7.06SB	3.3	483.	57.3N	73.7E	200.	13	7 60
2026007 7.07SB	1.9	252.	57.3N	73.7E	200.	13	7 60
2026008 7.08SB	4.2	482.	57.3N	73.7E	200.	13	7 60
2026009 7.09SB	3.7	418.	57.3N	73.7E	200.	13	7 60
2026010 7.10SB	3.9	436.	57.3N	73.7E	200.	13	7 60
2026011 7.11SB	3.4	278.	57.3N	73.7E	200.	13	7 60
2026012 7.12SB	7.0	475.	58.1N	65.2E	0100	13	7 60
2026013 7.13SB	3.3		58.1N	65.2E	0100	13	7 60
2026014 7.14SB	2.2	316.	58.1N	65.2E	0100	13	7 60
2026015 7.15SB	9.5	974.	57.3N	73.7E	200.	13	7 60
2026016 7.16SB	6.1	482.	57.3N	73.7E	200.	13	7 60
2026017 7.17SB	10.1	1065.	57.3N	73.7E	200.	13	7 60
2026018 7.18SB	12.5	1188.	58.2N	68.2E	200.	13	7 60
2026019 7.19SB	9.6	781.	57.5N	65.7E	200.	13	7 60
2026020 7.20SB	7.4	788.	56.9N	74.4E	200.	13	7 60
2026021 7.21SB	3.9	321.	57.5N	72.3E	200.	13	7 60
2026022 7.22SB	6.5	728.	58.2N	68.2E	200.	13	7 60
2026023 7.23SB	3.2	564.	56.4N	75.2E	200.	13	7 60
2026024 7.24SB	5.7	557.	56.9N	74.4E	200.	13	7 60

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
2026025 7.25SB	4.0	460.	57.5N	72.3E	200.	13	7 60
2026026 7.26SB	7.9	2073.	59.2N	68.8E	200.	13	7 60
2026027 7.27SB	12.0	1297.	58.2N	68.2E	200.	13	7 60
2026028 7.28SB	5.4	677.	58.2N	68.2E		13	7 60
2026029 7.29SB	13.6	1150.	57.1N	86.2E	68.2	13	7 60
2026030 7.30SB	11.7		57.1N	86.2E	200.	13	7 60
2026031 7.31SB	13.6		56.3N	79.6E	200.	13	7 60
2026032 7.32SB	16.6	1492.	56.8N	88.8E	200.	13	7 60
2026033 7.33SB	12.4	802.	57.9N	82.6E	0200	13	7 60
2026034 7.34SB	10.1	852.	57.9N	82.6E		13	7 60
2026035 7.35SB	13.6	1188.	58.7N	81.5E	200.	13	7 60
2026036 7.36SB	0.0		58.7N	81.5E	200.	13	7 60
2026037 7.37SB	10.5	910.	59.0N	81.5E	200.	13	7 60
2026038 7.38SB	22.8	1492.	59.0N	81.5E	200.	13	7 60
2026039 7.39SB	20.8	1613.	59.0N	81.5E	200.	13	7 60
2026040 7.40SB	9.7		56.5N	85.1E	0150	13	7 60
2026041 7.41SB	8.5		57.3N	86.2E	200.	13	7 60
2026042 7.42SB	8.1		57.1N	86.2E		13	7 60
2026043 7.43SB	8.1		57.1N	86.2E	200.	13	7 60
2026044 7.44SB	9.8		57.1N	86.2E		13	7 60
2026045 7.45SB	7.7		56.6N	86.3E	200.	13	7 60
2026046 7.46SB	7.6	340.	57.1N	90.6E	200.	13	7 60
2026047 7.47SB	8.8		57.2N	91.0E	200.	13	7 60
2026048 7.48SB	21.6	1066.	57.3N	86.2E	200.	13	7 60
2026049 7.49SB	18.6	893.	57.3N	86.2E	200.	13	7 60
2027001 11.01SB	13.5	975.	55.0N	73.0E	0150	13	60
2027002 11.02SB	142.5	10137.	55.0N	73.0E	0150	13	60
2027003 11.03SB	25.8	1677.	55.0N	73.0E	0150	13	60
2027004 11.04SB	26.0	1614.	55.0N	73.0E	0150	13	60
2027005 11.05SB	13.7	833.	55.3N	78.3E	200.	13	60
2028001 26.01SB	11.7		54.2N	85.9E	750.	13	7 60
2028002 26.02SB	11.2		53.7N	87.1E	375.	13	7 60
2028003 26.03SB	10.2		53.7N	87.1E	375.	13	7 60
2028004 26.04SB	12.1	1089.	53.0N	88.0E	750.	13	7 60
2028005 26.05SB	10.8	777.	53.0N	88.0E	750.	13	7 60
2028006 26.06SB	9.7	656.	53.0N	88.0E	750.	13	7 60
2028007 26.07SB	12.8	867.	52.5N	87.7E	2500	13	7 60
2028008 26.08SB	10.9	854.	53.4N	87.2E	750.	13	7 60
2028009 26.09SB	6.9	444.	54.8N	105.2E	375.	13	7 60
2028010 26.10SB	7.0	394.	54.8N	105.2E	375.	13	7 60
2028011 26.11SB	7.0	257.	56.3N	101.8E	375.	13	7 60
2028012 26.12SB	10.7	472.	52.2N	103.1E	375.	13	7 60
2028013 26.13SB	4.9	710.	53.3N	84.0E	375.	13	7 60
2028014 26.14SB	3.6	525.	55.9N	98.0E	375.	13	7 60
2028015 26.15SB	7.4		58.3N	104.2E	375.	13	7 60
2028016 26.16SB	3.6	281.	58.3N	104.2E	375.	13	7 60
2028017 26.17SB	8.4	571.	58.3N	104.2E	375.	13	7 60
2028018 26.18SB	6.1	546.	53.7N	103.2E	375.	13	7 60
2028019 26.19SB	11.4	1144.	53.7N	103.5E	375.	13	7 60
2028020 26.20SB	7.9	825.	53.6N	102.3E	375.	13	7 60

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA				(CONT.)			
PROFILE NUMBER	CARBON	NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY
	KG/M**2	G/M**2			M		A B C
2028021	26.21SB	10.0	856.	58.3N	104.2E	375.	13 7 60
2028022	26.22SB	18.2	471.	53.2N	103.2E	375.	13 7 60
2028023	26.23SB	15.7	1338.	58.3N	104.2E	375.	13 7 60
2028024	26.24SB	17.8	1211.	58.3N	104.2E	375.	13 7 60
2029001	32.01SB	5.5	674.	56.9N	74.4E	200.	13 7 60
2029002	32.02SB	6.8	665.	56.9N	74.4E	200.	13 7 60
2029003	32.03SB	12.5	903.	56.9N	74.4E	200.	13 7 60
2029004	32.04SB	7.4	788.	56.9N	74.4E	200.	13 7 60
2029005	32.05SB	5.9	578.	56.9N	74.4E	200.	13 7 60
2029006	32.06SB	12.5		56.9N	74.4E	200.	13 7 60
2029007	32.07SB	19.0	1675.	56.9N	74.4E	200.	13 7 60
2029008	32.08SB	6.7	589.	56.9N	74.4E	200.	13 7 60
2029009	32.09SB	19.1		56.8N	88.8E	200.	13 7 60
2029010	32.10SB	11.9	586.	56.5N	88.2E	200.	13 7 60
2029011	32.11SB	16.5	613.	56.3N	85.5E	375.	13 7 60
2030001	36.01SB	7.5	493.	53.8N	85.0E	200.	13 C 60
2030002	36.02SB	12.5	806.	53.8N	85.0E	200.	13 C 60
2030003	36.03SB	5.0	621.	55.9N	72.7E	200.	13 C 60
2030004	36.04SB	6.1	692.	55.9N	68.6E	200.	13 C 60
2030005	36.05SB	4.1	388.	56.9N	68.6E	200.	13 C 60
2030006	36.06SB	23.3	1869.	56.3N	78.2E	200.	13 C 60
2030007	36.07SB	10.5	1047.	56.5N	73.6E	200.	13 C 60
2030008	36.08SB	5.6	647.	56.5N	73.6E	200.	13 C 60
2030009	36.09SB	5.5	661.	56.5N	73.6E	200.	13 C 60
2031001	42.01SB	14.4	760.	53.8N	85.0E	200.	13 C 60
2031002	42.02SB	18.8		56.3N	78.2E	200.	13 C 60
2031003	42.03SB	27.4	906.	56.9N	68.6E	200.	13 C 60
2031004	42.04SB	24.7	1242.	56.5N	73.6E	200.	13 C 60
2031005	42.05SB	29.9		56.5N	73.6E	200.	13 C 60
2031006	42.06SB	23.0	2814.	56.9N	74.4E	200.	13 C 60
2031007	42.07SB	13.3		56.9N	74.4E	200.	13 C 60
2031008	42.08SB	33.4		55.3N	74.5E	200.	13 C 60
2031009	43.01SB	0.0		55.9N	72.7E	200.	13 C 60
2032001	50.01SB	15.1	1570.	54.1N	84.2E	200.	13 7 60
2032002	50.02SB	6.8	455.	54.1N	84.2E	200.	13 7 60
2032003	50.03SB	18.6	863.	54.3N	84.2E	200.	13 7 60
2032004	50.04SB	7.6	674.	54.0N	84.8E	200.	13 7 60
2032005	50.05SB	10.8	1698.	54.0N	84.8E	200.	13 7 60
2032006	50.06SB	38.4	1256.	56.1N	85.6E	200.	13 7 60
2032007	50.07SB	14.0	762.	56.1N	85.6E	200.	13 7 60
2032008	50.08SB	10.7	1218.	52.9N	89.9E	375.	13 7 60
2032009	50.09SB	18.2	1820.	54.2N	91.5E	375.	13 7 60
2032010	50.10SB	4.4	550.	54.4N	92.2E	750.	13 7 60
2032011	50.11SB	9.1	367.	53.9N	92.7E	375.	13 7 60
2032012	50.12SB	9.5	416.	57.2N	94.9E	375.	13 7 60
2032013	50.13SB	5.8	1877.	52.8N	89.3E		13 7 60
2032014	50.14SB	4.0	275.	54.2N	90.2E	375.	13 7 60
2032015	50.15SB	14.5	1205.	55.9N	98.0E	375.	13 7 60
2032016	50.16SB	8.8	1102.	52.3N	104.2E	375.	13 7 60
2032017	50.17SB	19.9	1759.	52.3N	104.2E	375.	13 7 60

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
2032018	50.18SB	3.8	175.	52.3N	104.2E	375.	13	7	60
2033001	52.01SB	24.2		54.3N	84.2E	200.	13	7	60
2033002	52.02SB	15.1		54.3N	84.2E	200.	13	7	60
2033003	52.03SB	19.4		53.7N	87.1E	375.	13	7	60
2033004	52.04SB	33.8	2638.	52.9N	89.9E	375.	13	7	60
2033005	52.05SB	27.7	3179.	54.2N	91.5E	375.	13	7	60
2033006	52.06SB	19.8	1284.	53.7N	91.7E	375.	13	7	60
2033007	52.07SB	15.5	555.	53.7N	91.4E	375.	13	7	60
2033008	52.08SB	21.2	1018.	54.2N	90.2E	375.	13	7	60
2033009	52.09SB	11.7	1180.	54.9N	99.0E	375.	13	7	60
2033010	52.10SB	12.2	1616.	54.9N	99.0E	375.	13	7	60
2033011	52.11SB	20.7	1767.	54.9N	98.0E	375.	13	7	60
2033012	52.12SB	19.5	1731.	54.9N	99.0E	375.	13	7	60
2034001	60.01 SB	15.6	1099.	56.4N	63.7E	200.	13	C	40
2034002	60.02 SB	18.9	958.	55.2N	63.2E	200.	13	C	40
2034003	60.03 SB	9.4	499.	54.9N	64.4E	200.	13	C	40
2034004	60.04 SB	13.7	598.	56.3N	63.9E	200.	13	C	40
2034005	60.05 SB	23.8	1817.	55.3N	75.6E	200.	13	C	40
2034006	60.06 SB	13.1	1323.	55.3N	74.3E	200.	13	C	40
2034007	60.07 SB	18.0	1881.	56.1N	74.6E	200.	13	C	40
2034008	60.08 SB	16.6	1563.	56.1N	69.4E	200.	13	C	40
2034009	60.10 SB	17.1	1444.	57.2N	65.5E	200.	13	C	40
2034010	60.11 SB	14.1	1144.	55.3N	78.3E	200.	13	C	40
2034011	60.12 SB	21.6	1882.	55.7N	76.7E	200.	13	C	40
2034012	60.13 SB	18.6	1523.	55.2N	80.3E	200.	13	C	40
2034013	60.14 SB	15.5	1278.	50.1N	73.7E	750.	13	C	40
2034014	60.15 SB	23.1	1558.	55.0N	74.1E	200.	13	C	40
2034015	60.16 SB	23.9	1565.	54.9N	73.9E	200.	13	C	40
2034016	60.17 SB	26.7	1942.	55.3N	74.3E	200.	13	C	40
2034017	60.18 SB	22.1	1304.	54.6N	82.2E	200.	13	C	40
2035001	74.01 SB	22.4	1040.	55.8N	65.5E	200.	13	C	40
2035002	74.02 SB	20.7		55.3N	62.4E	200.	13	C	40
2035003	74.03 SB	18.3		54.7N	62.3E	200.	13	C	40
2035004	74.04 SB	23.1	1509.	54.9N	71.9E	200.	13	C	40
2035005	74.05 SB	17.2	1357.	54.7N	73.0E	200.	13	C	40
2035006	74.06 SB	16.8	1484.	55.0N	73.4E	0100	13	C	40
2035007	74.07 SB	14.2	900.	54.2N	74.9E	200.	13	C	40
2035008	74.08 SB	26.2	1845.	54.5N	79.7E	200.	13	C	40
2035009	74.09 SB	27.2	2151.	54.5N	79.7E	200.	13	C	40
2035010	74.10 SB	23.3	2234.	54.9N	71.9E	200.	13	C	40
2035011	74.11 SB	22.2	1458.	54.9N	71.9E	200.	13	C	40
2035012	74.12 SB	27.8	2240.	53.7N	73.8E	375.	13	C	40
2035013	74.13 SB	24.4	1953.	55.0N	74.1E	200.	13	C	40
2035014	74.14 SB	24.5	2158.	55.4N	74.8E	200.	13	C	40
2035015	74.15 SB	17.2	1110.	54.5N	79.7E	200.	13	C	40
2036001	91.01 SB	21.9	1681.	54.7N	62.9E	200.	13	C	40
2036002	91.02 SB	21.5	1369.	55.3N	65.9E	200.	13	C	40
2036003	91.03 SB	20.5	932.	54.3N	63.9E	200.	13	C	40
2036004	91.04 SB	20.0	1340.	54.7N	62.9E	200.	13	C	40
2036005	91.05 SB	18.1	1125.	55.5N	65.3E	200.	13	C	40

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
2036006	91.06 SB	20.2	1090.	55.2N	67.2E	200.	13	C 40
2036007	91.07 SB	24.3	1366.	55.2N	67.2E	200.	13	C 40
2036008	91.08 SB	17.7	1738.	54.9N	75.1E	200.	13	C 40
2036009	91.09 SB	21.9	1760.	56.1N	74.7E	200.	13	C 40
2036010	91.10 SB	10.4	920.	54.9N	75.1E	200.	13	C 40
2036011	91.11 SB	11.4	1120.	54.4N	73.5E	200.	13	C 40
2036012	91.12 SB	28.2	2827.	56.5N	73.6E	200.	13	C 40
2036013	91.13 SB	12.7	984.	56.5N	73.6E	200.	13	C 40
2036014	91.14 SB	18.0	1320.	55.6N	71.3E	200.	13	C 40
2036015	91.15 SB	6.9	743.	55.6N	71.3E	200.	13	C 40
2036016	91.16 SB	28.7	2555.	55.4N	74.3E	200.	13	C 40
2036017	91.17 SB	23.8	2989.	55.4N	74.3E	200.	13	C 40
2036018	91.18 SB	21.4	2211.	55.5N	75.0E	200.	13	C 40
2036019	91.19 SB	22.3	1624.	55.5N	75.0E	200.	13	C 40
2036020	91.20 SB	19.5	1696.	55.7N	76.7E	200.	13	C 40
2036021	91.21 SB	27.2	1335.	54.7N	76.6E	200.	13	C 40
2037001	104.01 SB	15.3	1763.	55.2N	63.2E	200.	13	C 40
2037002	104.02 SB	14.9	737.	55.6N	71.3E	200.	13	C 40
2037003	104.03 SB	22.0	1043.	55.6N	71.3E	200.	13	C 40
2037004	104.04 SB	9.6	944.	54.9N	75.1E	200.	13	C 40
2037005	104.05 SB	15.0	1742.	56.5N	73.6E	200.	13	C 40
2037006	104.06 SB	7.6		55.8N	65.5E	200.	13	C 40
2037007	104.07 SB	14.1	1138.	55.6N	71.3E	200.	13	C 40
2037008	104.08 SB	1.5	156.	55.6N	71.3E	200.	13	C 40
2037009	104.09 SB	10.8	693.	54.7N	73.0E	200.	13	C 40
2037010	104.10 SB	9.6	1053.	55.3N	78.3E	200.	13	C 40
2037011	104.11 SB	6.1		55.0N	73.4E	200.	13	C 40
2037012	104.12 SB	8.0		55.0N	73.4E	200.	13	C 40
2037013	104.13 SB	5.5		55.0N	74.7E	200.	13	C 40
2037014	104.14 SB	4.9		55.0N	73.4E	200.	13	C 40
2037015	104.15 SB	10.0		56.7N	66.2E	200.	13	C 40
2037016	104.16 SB	7.9	707.	55.3N	65.9E	200.	13	C 40
2038001	128.01 SB	7.9	755.	56.2N	61.5E	200.	13	C 40
2038002	128.02 SB	8.4	554.	55.9N	68.3E	200.	13	C 40
2038003	128.03 SB	4.7	338.	55.0N	73.4E	200.	13	C 40
2038004	128.04 SB	5.2	972.	55.9N	72.2E	200.	13	C 40
2038005	128.05 SB	6.9		55.9N	72.2E	200.	13	C 40
2038006	128.06 SB	4.2	502.	55.9N	68.3E	200.	13	C 40
2038007	128.07 SB	12.7	910.	56.3N	66.2E	200.	13	C 40
2038008	128.08 SB	7.8	516.	55.6N	71.3E	200.	13	C 40
2038009	128.09 SB	4.4	196.	55.6N	71.3E	200.	13	C 40
2038010	128.10 SB	4.3	516.	56.5N	75.6E	200.	13	C 40
2038011	128.11 SB	17.1	1306.	56.5N	75.6E	200.	13	C 40
2038012	128.12 SB	4.0		56.5N	75.6E	200.	13	C 40
2038013	128.13 SB	6.8	590.	55.6N	71.3E	200.	13	C 40
2038014	128.14 SB	8.6	804.	55.6N	71.3E	200.	13	C 40
2038015	128.15 SB	15.1	2071.	55.6N	71.3E	200.	13	C 40
2039001	139.01 SB	18.3		56.5N	75.6E	200.	13	7 40
2039002	139.02 SB	16.1		55.9N	72.2E	200.	13	7 40
2039003	139.03 SB	11.5		56.8N	73.2E	200.	13	7 40

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
2039004	139.04	SB	9.0	56.0N	71.5E	200.	13	7	40
2039005	139.05	SB	14.9	56.5N	75.6E	200.	13	7	40
2039006	139.06	SB	14.5	55.6N	71.3E	200.	13	7	40
2039007	139.07	SB	14.0	55.6N	71.3E	200.	13	7	40
2039008	139.08	SB	7.2	56.0N	78.0E	200.	13	7	40
2039009	139.09	SB	5.4	54.7N	76.6E	200.	13	7	40
2039010	139.10	SB	5.7	54.3N	77.4E	200.	13	7	40
2039011	139.11	SB	5.6	55.7N	76.7E	200.	13	7	40
2039012	139.12	SB	7.5	55.4N	78.3E	200.	13	7	40
2040001	142.01	SB	11.0	55.9N	72.7E	200.	13	C	60
2040002	142.02	SB	15.0	55.9N	72.7E	200.	13	C	60
2040003	142.03	SB	10.6	55.0N	73.4E	200.	13	C	60
2040004	142.04	SB	21.8	58.0N	69.0E	200.	13	C	60
2040005	142.05	SB	16.6	56.4N	75.2E	200.	13	C	60
2040006	142.06	SB	11.1	55.2N	80.3E	200.	13	C	60
2040007	142.07	SB	11.3	55.2N	80.3E	200.	13	C	60
2040008	142.08	SB	0.4	55.2N	80.3E	200.	13	C	60
2040009	142.09	SB	15.7	55.2N	80.3E	200.	13	C	60
2041001	161.01	SB	25.5	55.2N	61.4E	75.	13	C	40
2041002	161.02	SB	27.1	54.3N	60.0E	75.	13	C	40
2041003	161.03	SB	30.4	57.3N	73.7E	200.	13	C	40
2041004	161.04	SB	17.9	55.5N	60.9E	375.	13	C	40
2041005	161.05	SB	15.7	53.5N	85.5E	375.	13	C	40
2041006	161.06	SB	22.1	52.6N	85.3E	200.	13	C	40
2041007	161.07	SB	31.8	52.3N	86.2E	200.	13	C	40
2041008	161.08	SB	17.2	53.0N	84.7E	375.	13	C	40
2041009	161.10	SB	32.4	53.9N	86.7E	375.	13	C	40
2041010	161.11	SB	37.0	56.2N	88.5E	200.	13	C	40
2041011	161.12	SB	29.8	56.2N	88.5E	200.	13	C	40
2041012	161.13	SB	22.5	56.2N	87.7E	200.	13	C	40
2041013	161.14	SB	22.6	55.5N	83.3E	200.	13	C	40
2041014	161.15	SB	20.7	53.7N	91.7E	375.	13	C	40
2041015	161.16	SB	23.5	56.5N	93.3E	375.	13	C	40
2041016	161.17	SB	26.8	56.1N	92.8E	200.	13	C	40
2041017	161.18	SB	25.8	58.2N	59.4E	200.	13	C	40
2041018	161.19	SB	20.7	53.2N	92.4E	375.	13	C	40
2041019	161.20	SB	11.7	54.2N	63.1E	375.	13	C	40
2041020	161.21	SB	15.5	55.3N	89.8E	375.	13	C	40
2041021	161.22	SB	15.1	54.2N	90.9E	750.	13	C	40
2041022	161.23	SB	11.2	56.1N	93.2E	200.	13	C	40
2041023	161.24	SB	23.5	53.9N	92.7E	375.	13	C	40
2041024	161.25	SB	11.8	54.3N	101.6E	750.	13	C	40
2041025	161.26	SB	12.3	54.3N	101.6E	750.	13	C	40
2041026	161.27	SB	11.2	53.1N	103.0E	750.	13	C	40
2041027	161.28	SB	7.4	54.9N	90.0E	375.	13	C	40
2041028	161.29	SB	13.8	53.7N	103.2E	375.	13	C	40
2041029	161.30	SB	9.3	53.7N	103.2E	375.	13	C	40
2041030	161.31	SB	11.1	54.5N	100.6E	375.	13	C	40
2041031	161.32	SB	22.2	53.1N	103.0E	750.	13	C	40
2041032	161.33	SB	29.8	54.3N	101.6E	750.	13	C	40

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER			CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
2041033	161.34	SB	40.6	2727.	54.5N	100.6E	375.	13	C 40
2041034	161.35	SB	44.4	3896.	54.9N	90.0E	375.	13	C 40
2041035	161.36	SB	20.9	2814.	52.3N	104.2E	0750	13	C 40
2042001	169.01	SB	15.2	1766.	53.0N	84.7E	375.	13	D 40
2042002	169.02	SB	13.2	1092.	53.0N	84.7E	375.	13	D 40
2042003	169.03	SB	6.8	638.	53.0N	84.7E	375.	13	D 40
2042004	169.04	SB	19.1	917.	54.3N	84.2E	200.	13	D 40
2042005	169.05	SB	42.2	1312.	55.9N	85.4E	375.	13	D 40
2042006	169.06	SB	21.8	1140.	55.5N	83.3E	200.	13	D 40
2042007	169.07	SB	11.7	794.	54.3N	84.2E	200.	13	D 40
2042008	169.08	SB	10.4	746.	56.2N	87.7E	200.	13	D 40
2042009	169.09	SB	9.5	1375.	55.8N	94.3E	375.	13	D 40
2042010	169.10	SB	13.6	528.	56.1N	92.8E	0500	13	D 40
2042011	169.11	SB	10.6	371.	53.1N	103.0E	750.	13	D 40
2042012	169.12	SB	2.9	238.	53.2N	103.8E	750.	13	D 40
2042013	169.13	SB	7.5	673.	53.2N	103.8E	750.	13	D 40
2042014	169.14	SB	5.7	284.	55.8N	94.3E	375.	13	D 40
2042015	169.15	SB	8.6	655.	56.2N	96.2E	375.	13	D 40
2042016	169.16	SB	10.3		53.7N	91.7E	375.	13	D 40
2042017	169.17	SB	12.8	1013.	56.3N	89.5E	375.	13	D 40
2042018	169.18	SB	7.4	387.	56.1N	92.8E	200.	13	D 40
2042019	169.19	SB	5.3	895.	56.5N	93.3E	375.	13	D 40
2042020	169.20	SB	12.2	333.	56.5N	93.3E	375.	13	D 40
2042021	169.21	SB	9.6	294.	56.1N	92.8E	200.	13	D 40
2042022	169.22	SB	9.6	570.	56.5N	93.3E	375.	13	D 40
2042023	169.23	SB	6.9	613.	56.5N	93.3E	375.	13	D 40
2042024	169.24	SB	27.0	3267.	56.5N	85.1E	375.	13	D 40
2042025	169.25	SB	6.7	1082.	56.5N	85.1E	200.	13	D 40
2042026	169.26	SB	6.4	296.	56.1N	92.8E	200.	13	D 40
2043001	200.01	SB	24.0	1494.	52.3N	85.1E	200.	13	C 40
2043002	200.02	SB	19.6	743.	53.4N	83.2E	200.	13	C 40
2043003	200.03	SB	18.6	1324.	52.1N	83.3E	375.	13	C 40
2043004	200.04	SB	18.6	1869.	52.4N	83.2E	200.	13	C 40
2043005	200.05	SB	26.4	669.	53.7N	81.3E	200.	13	C 40
2043006	200.06	SB	29.2	776.	53.7N	81.3E	200.	13	C 40
2043007	200.07	SB	7.3	544.	52.8N	82.2E	200.	13	C 40
2044001	205.01	SB	14.8	1008.	54.2N	91.5E	375.	13	C 40
2044002	205.02	SB	9.2	838.	53.4N	91.7E	375.	13	C 40
2044003	205.03	SB	14.0	454.	54.5N	89.9E	375.	13	C 40
2044004	205.04	SB	16.6	1778.	54.2N	91.5E	375.	13	C 40
2044005	205.05	SB	6.5	474.	54.2N	90.9E	750.	13	C 40
2044006	205.06	SB	14.4	1297.	53.2N	90.5E	375.	13	C 40
2044007	205.07	SB	14.2	735.	54.5N	89.9E	375.	13	C 40
2044008	205.08	SB	16.1	1467.	54.0N	91.7E	375.	13	C 40
2044009	205.09	SB	14.5	1424.	55.1N	91.1E	375.	13	C 40
2045001	211.01	SB	9.8	1305.	54.2N	73.5E	200.	13	C 40
2045002	211.02	SB	4.4	281.	54.2N	73.5E	200.	13	C 40
2045003	211.03	SB	1.9		54.2N	74.9E	200.	13	C 40
2045004	211.04	SB	11.9	1095.	54.3N	77.4E	200.	13	C 40
2045005	211.05	SB	7.3	460.	54.3N	78.1E	200.	13	C 40

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER	CARBON		NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2		G/M**2			M		A	B	C
2045006	211.06	SB	16.6	700.	53.7N	78.0E	200.	13	C	40
2045007	211.07	SB	13.9	445.	52.5N	80.2E	200.	13	C	40
2045008	211.08	SB	16.9	677.	52.0N	82.9E	200.	13	C	40
2045009	211.09	SB	14.6	1027.	51.7N	81.9E	375.	13	C	40
2046001	218.01	SB	8.8		55.1N	83.1E	200	13	C	40
2046002	218.02	SB	2.7		53.6N	77.5E	200.	13	C	40
2046003	218.03	SB	5.4		55.0N	73.4E	200	13	C	40
2046004	218.04	SB	5.5		52.7N	80.0E	200.	13	C	40
2047001	223.01	SB	27.0	1701.	54.4N	71.8E	200.	13	C	40
2047002	223.02	SB	20.4	1345.	54.7N	76.6E	200.	13	C	40
2047003	223.03	SB	11.5		54.9N	79.2E	200.	13	C	40
2047004	223.04	SB	13.7	1111.	53.2N	79.7E	200.	13	C	40
2048001	230.01	P SB	6.5	460.	54.3N	78.1E	200.	13	C	40
2048002	230.01	V SB	6.0	493.	54.3N	78.1E	200.	13	C	40
2048003	230.02	P SB	3.8	372.	54.3N	78.1E	200.	13	C	40
2048004	230.02	V SB	4.5	384.	54.3N	78.1E	200.	13	C	40
2048005	230.03	P SB	5.2	340.	54.3N	78.1E	200.	13	C	40
2048006	230.03	V SB	5.4	337.	54.3N	78.1E	200.	13	C	40
2049001	237.01	SB	17.5	1537.	54.2N	90.9E	750.	13	C	40
2049002	237.02	SB	17.8	1347.	54.2N	90.9E	750.	13	C	40
2049003	237.03	SB	7.5	654.	54.2N	90.9E	750.	13	C	40
2049004	237.04	SB	12.9	398.	54.5N	89.9E	375.	13	C	40
2049005	237.05	SB	9.2	1712.	56.1N	92.8E	375.	13	C	40
2049006	237.06	SB	7.8	1424.	56.1N	92.8E	375.	13	C	40
2049007	237.07	SB	7.0		52.0N	85.3E	375.	13	C	40
2049008	237.08	SB	8.5	510.	53.2N	90.5E	375.	13	C	40
2049009	237.09	SB	12.8	665.	52.0N	85.3E	375.	13	C	40
2049010	237.10	SB	6.8	388.	54.5N	89.9E	375.	13	C	40
2049011	237.11	SB	7.9	388.	53.8N	91.4E	375.	13	C	40
2049012	237.12	SB	13.0	668.	52.1N	90.7E	750.	13	C	40
2049013	237.13	SB	8.6	770.	56.2N	76.5E	200.	13	C	40
2050001	245.01	SB	15.3	1001.	53.0N	78.6E	200.	13	B	40
2050002	245.03	SB	6.3		54.0N	78.7E	200.	13	B	40
2050003	245.04	SB	8.0		53.3N	78.3E	200.	13	B	40
2050004	245.05	SB	5.5		52.3N	79.1E	200.	13	B	40
2051001	248.01	SB	8.3		53.5N	80.2E	200.	13	B	40
2051002	248.02	SB	6.6		53.5N	80.2E	200.	13	B	40
2052001	251.01	SB	4.3		53.4N	79.0E	200.	13	B	40
2052002	251.02	SB	11.3		52.7N	83.0E	200.	13	B	40
2053001	254.01	SB	6.4	711.	53.8N	91.4E	375.	13	B	40
2053002	254.02	SB	3.5		53.8N	91.4E	375.	13	B	40
2053003	254.03	SB	4.9	394.	52.2N	90.7E	750.	13	B	40
2053004	254.04	SB	6.7	377.	53.2N	90.5E	375.	13	B	40
2053005	254.05	SB	5.5	357.	53.2N	90.5E	375.	13	B	40
2053006	254.06	SB	10.6	658.	52.1N	90.7E	750.	13	B	40
2053007	254.07	SB	6.3	473.	53.2N	90.5E	375.	13	B	40
2053008	254.08	SB	6.4	938.	56.1N	92.8E	0200	13	B	40
2054001	257.01	SB	17.4	948.	50.3N	87.6E	1600	13	B	40
2055001	IG12	SB	20.5		59.2N	87.5E	0175	42	7	60
2055002	IG16	SB	6.0		59.2N	87.5E	0175	42	7	60

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
2055003	IG19	SB	3.9		59.2N	87.5E	0175	42	7 60
2055004	IG20	SB	16.9	2280.	59.2N	87.5E	0175	42	7 60
2055005	IG44	SB	5.6		59.2N	87.5E	0175	42	7 60
2055006	IG62	SB	7.3		59.2N	87.5E	0175	42	7 60
2055007	IG8	SB	8.9		59.2N	87.5E	0175	42	7 60
2056001	VK299	SB	15.8		57.0N	86.7E		42	8 60
2056002	VK305	SB	9.7	896.	57.0N	86.7E		42	8 60
2056003	VK307	SB	8.5	736.	57.0N	86.7E		42	8 60
2056004	VK312	SB	9.1	839.	57.0N	86.7E	0420	42	8 60
2056005	VK319	SB	9.2	504.	57.0N	86.7E		42	8 60
2056006	VK331	SB	11.0	877.	57.0N	86.7E	0500	42	8 60
2056007	VK335	SB	13.4	864.	57.0N	86.7E		42	8 60
2057001	SK479	SB	7.0		55.7N	88.6E	1580	42	7 60
2057002	SK483	SB	12.4		55.7N	88.6E	2000	42	7 60
2057003	SK486	SB	3.9		55.7N	88.6E		42	7 60
2057004	SK488	SB	6.5		55.7N	88.6E	1750	42	7 60
2057005	SK489	SB	7.9		55.7N	88.6E	1600	42	7 60
2058001	MS1	SB	18.7	1406.	57.1N	83.8E	0175	42	7 60
2058002	MS29	SB	10.2	828.	59.2N	68.8E	0175	42	7 60
2058003	MS31	SB	15.1	1364.	59.2N	68.8E	0175	42	7 60
2058004	MS34	SB	4.0	584.	59.2N	68.8E	0175	42	7 60
2058005	MS57	SB	5.3	560.	56.3N	78.2E	0175	42	7 60
2058006	MS62	SB	5.1	399.	56.6N	78.2E	0175	42	7 60
2058007	MS62A	SB	6.0	1274.	59.1N	81.0E	0175	42	7 60
2059001	VS1C	SB	12.5	972.	55.1N	83.1E	0175	42	7 60
2060001	VV14	SB	5.6	768.	50.1N	88.9E	2000	42	B 60
2060002	VV87	SB	3.3	225.	50.1N	88.3E		42	B 60
2060003	VV2	SB	8.7	869.	50.1N	88.9E	2000	42	B 60
2060004	VV9	SB	4.0	271.	50.1N	88.9E		42	B 60
2061001	RZ15	SB	25.1	2715.	39.7N	46.6E	1700	42	C 60
2061002	RZ16	SB	17.9	2053.	39.7N	46.6E		42	C 60
2061003	RZ5	SB	20.6	2425.	50.0N	88.2E	2000	42	C 60
2061004	RZ621	SB	18.1	2164.	50.0N	88.2E	2100	42	C 60
2068001	LP1	LS	46.7	3434.	19.9N	102.3E	330	15	? 26
2068002	LP2	LS	7.0	157.	19.9N	102.3E	330	15	? 26
2068003	SY1	LS	39.3	2742.	19.4N	101.8E	300	5	? 26 510
2068004	VP1	LS	26.9	1387.	18.0N	102.6E	150	15	? 26 5XX
2068005	VP2	LS	21.2	653.	18.0N	102.6E	150	15	? 26 5XX
2068006	SA1	LS	32.7	610.	16.6N	104.8E	180	15	? 26 5XX
2068007	SA4	LS	10.3	265.	16.6N	104.8E	180	15	Z 26 5XX
2068008	SA6	LS	11.7	64.	16.6N	104.8E	180	15	Z 26 5XX
2068009	SA6A	LS	19.8	3314.	16.6N	104.8E	180	15	Z 26 5XX
2068010	SA7	LS	33.6	284.	16.6N	104.8E	180	15	? 26 5XX
2068011	PK3	LS	97.1	3902.	15.1N	105.9E	180	15	? 6 400
2068012	PK3A	LS	92.6	3319.	15.1N	105.9E	180	15	? 26 400
2068013	PK5	LS	46.0	1373.	15.1N	105.9E	095	15	? 36 597
2068014	PK6	LS	66.5	1777.	15.1N	105.9E	120	15	? 400
2068015	PK8	LS	101.8	2264.	15.1N	105.9E	200	15	Z 26 400
2068016	PK9	LS	74.7	1398.	15.1N	105.9E	170	15	Z 26 400
2068017	PK10	LS	24.6	891.	15.1N	105.9E	120	15	Y 32 597

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
2068018	PK11	LS	9.3	197.	15.1N	105.9E	180	15	Z 26 5XX
2068019	PK12	LS	8.0	70.	15.1N	105.9E	200	15	Z 27 50X
2068020	CH1	LS	10.6	796.	15.6N	105.9E	150	15	Z 29 50X
2069001	SC01	RS	8.7	1180.	49.6N	57.2E	300	19	B
2069002	SC01A	RS	6.0	980.	49.6N	57.2E	300	19	B
2069003	SC02	RS	7.8	1237.	49.6N	57.2E	300	19	B
2069004	SC02A	RS	12.4	1692.	49.6N	57.2E	300	19	?
2070001	BT1.01	TL	8.4	691.	18.6N	99.9E	325	62	Y 29 5XX
2070002	BT1.02	TL	0.0	147.	18.5N	99.9E	370	62	Y 43 50X
2070003	BT1.03	TL	2.9	295.	18.3N	99.2E	400	62	Y 43 50X
2070004	BT1.04	TL	4.9	299.	18.5N	98.6E	585	62	Y 43 50X
2070005	BT1.05	TL	3.6	191.	18.5N	98.6E	560	62	Y 43 50X
2070006	BT1.06	TL	4.9	266.	18.5N	98.6E	880	62	Y 29 50X
2070007	BT1.07	TL	0.0	206.	18.5N	98.6E	540	62	Y 29 50X
2070008	BT1.08	TL	2.9	141.	18.5N	98.6E	455	62	Y 29 50X
2070009	BT1.09	TL	3.3	156.	18.2N	98.4E	815	62	Y 29 50X
2070010	BT1.10	TL	3.7	158.	18.2N	98.4E	835	62	Y 29 50X
2070011	BT1.11	TL	2.1	110.	18.5N	98.4E	450	62	Y 29 50X
2070012	BT1.12	TL	5.6	336.	18.2N	98.3E	1040	62	Y 29 50X
2070013	BT1.13	TL	22.1	742.	18.1N	98.0E	500	62	Y 29 50X
2070014	BT1.14	TL	12.1	857.	18.2N	98.0E	400	62	Y 29 7XX
2070015	BT1.15	TL	6.2	7310.	18.5N	98.0E	500	62	Y 29 50X
2070016	BT1.16	TL	8.3	572.	18.5N	97.9E	430	62	Y 29 520
2070017	BT1.17	TL	3.8	124.	18.8N	98.0E	640	62	Y 29 50X
2070018	BT1.18	TL	12.2	1182.	18.4N	98.0E	550	62	Y 29 510
2070019	BT1.19	TL	5.2	299.	18.2N	98.3E	1070	62	Y 29 50X
2070020	BT1.20	TL	10.8	664.	18.2N	98.5E	340	62	Y 29 50X
2070021	BT1.21	TL	5.6	266.	18.8N	98.6E	630	62	Y 29 50X
2070022	BT1.22	TL	7.9	441.	18.9N	98.8E	800	62	Y 29 00X
2070023	BT1.23	TL	9.0	769.	19.1N	99.0E	550	62	Y 29 520
2070024	BT1.24	TL	8.3	602.	19.1N	99.0E	575	62	Y 29 50X
2070025	BT1.25	TL	7.1	580.	19.4N	98.9E	520	62	Y 29 50X
2070026	BT1.26	TL	10.1	728.	19.4N	99.0E	460	62	Y 29 520
2070027	BT1.27	TL	9.2	620.	18.7N	100.0E	270	62	Y 29 520
2070028	BT1.28	TL	7.5	531.	18.7N	100.0E	280	62	Y 29 52X
2070029	BT1.29	TL	8.1	558.	18.7N	100.0E	370	62	Y 29 520
2070030	BT1.30	TL	6.5	264.	18.7N	100.0E	350	62	Y 43
2070031	BT1.31	TL	10.6	852.	19.6N	100.0E	540	62	Y 29 50X
2070032	BT1.32	TL	9.3	580.	19.6N	100.0E	540	62	Y 29
2070033	BT1.33	TL	9.9	730.	19.5N	99.5E	595	62	Y 29 50X
2070034	BT1.34	TL	3.1	177.	18.7N	100.0E	350	62	Y 29 50X
2070035	BT1.35	TL	3.3	305.	18.7N	100.0E	360	62	Y 29 50X
2070036	BT1.36	TL	3.2	204.	18.7N	100.0E	400	62	Y 29 50X
2070037	BT1.37	TL	3.6	296.	18.7N	100.0E	380	62	Y 29 50X
2070038	BT1.38	TL	6.9	453.	18.3N	99.2E	480	62	Y 29 50X
2070039	BT1.39	TL	5.6	288.	18.3N	99.2E	520	62	Y 29 50X
2070040	BT1.40	TL	2.6		18.7N	100.0E	280	62	Y 43 510
2070041	BT2.41	TL	0.4	30.	18.7N	100.0E	280	63	Y 43 510
2070042	BT2.42	TL	7.4	581.	18.6N	99.9E	450	63	Y 29 50X
2070043	BT2.43	TL	10.3	732.	18.6N	99.9E	400	63	Y 29 50X

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
2070044	BT2.44 TL	10.2	905.	18.8N	100.1E	340	63	Y 29 510
2070045	BT2.45 TL	7.3	655.	18.8N	100.1E	300	63	Y 29 50X
2070046	BT2.46 TL	5.7	401.	18.5N	100.6E	380	63	Y 29 00X
2070047	BT2.47 TL	3.8	265.	18.5N	100.6E	480	63	Y 29 00X
2070048	BT2.48 TL	2.5	225.	18.6N	100.7E	270	63	Y 43 50X
2070049	BT2.49 TL	4.7	377.	18.6N	100.7E	280	63	Y 29 50X
2070050	BT2.50 TL	6.0	374.	17.9N	100.0E	300	63	Y 29 00X
2070051	BT2.51 TL	14.2	738.	17.8N	99.8E	280	63	Y 29 005
2070052	BT2.52 TL	2.8	242.	17.6N	100.3E	180	63	Y 29 510
2070053	BT2.53 TL	3.0	220.	17.6N	100.3E	180	63	Y 29 50X
2070054	BT2.54 TL	9.2	601.	17.6N	100.3E	190	63	Y 29 510
2070055	BT2.55 TL	6.7	439.	17.6N	100.3E	190	63	Y 29 50X
2070056	BT2.56 TL	9.3	683.	17.6N	100.3E	180	63	Y 29 510
2070057	BT2.57 TL	8.5	733.	17.6N	100.3E	190	63	Y 29 50X
2070058	BT2.58 TL	3.6	195.	17.7N	100.5E	130	63	Y 43 510
2070059	BT2.59 TL	4.4	323.	18.4N	100.5E	900	63	Y 29 510
2070060	BT2.60 TL	9.8	875.	18.4N	100.5E	500	63	Y 29 510
2070061	BT2.61 TL	3.9	210.	19.0N	98.0E	620	63	Y 29 50X
2070062	BT2.62 TL	7.9	480.	19.0N	98.0E	560	63	Y 29 50X
2070063	BT2.63 TL	7.3	383.	19.0N	98.0E	485	63	Y 29 50X
2070064	BT2.64 TL	3.7	268.	19.1N	98.0E	530	63	Y 43 510
2070065	BT2.65 TL	7.4	465.	19.2N	98.0E	470	63	Y 43 510
2070066	BT2.66 TL	6.1	387.	19.6N	98.2E	750	63	Y 29 50X
2070067	BT2.67 TL	6.5	450.	19.5N	98.1E	520	63	Y 29 50X
2070068	BT2.68 TL	6.1	391.	19.5N	98.0E	650	63	Y 43 510
2070069	BT2.69 TL	7.7	621.	19.4N	98.3E	915	63	Y 29 510
2070070	BT2.70 TL	8.4	461.	19.4N	98.3E	640	63	Y 29 510
2070071	BT2.71 TL	5.5	191.	19.3N	98.5E	1060	63	Y 29 68X
2070072	BT2.72 TL	12.8	737.	17.2N	99.0E	340	63	Y 29 510
2070073	BT2.73 TL	4.4	353.	17.2N	99.2E	460	63	Y 29 50X
2071001	10-C RS	3.9		52.5N	62.0E	200	73	D 22 7XX
2071002	131-I RS	1.5		52.5N	62.0E	200	73	D 22 7XX
2071003	4-C RS	1.5		52.5N	62.0E	200	73	D 22 7XX
2071004	44-C RS	2.7		52.5N	62.0E	200	73	D 22 7XX
2071005	5-C RS	1.2		52.5N	62.0E	200	73	D 22 7XX
2072001	SR05.1 II	9.7	478.	24.0N	70.0E	0300	81	Y 43 7XX
2072002	SR11.1 II	7.0	1055.	12.5N	75.5E	0990	81	? 36 54X
2072003	SR11.2 II	8.1	1015.	12.5N	75.5E	0914	81	? 43 54X
2072004	SR11.3 II	3.8	345.	12.5N	75.5E	0838	81	? 36 00X
2072005	SR11.4 II	6.0	669.	13.0N	74.9E	0061	81	? 36 54X
2072006	SR13.1 II	9.4	2853.	32.0N	77.5E	0300	81	S 27 7XX
2072007	SR13.2 II	6.5	1134.	31.7N	75.3E	0300	81	R 29 7XX
2072008	SR13.3 II	5.4	872.	29.8N	76.5E	0300	81	Q 59 7XX
2072009	SR13.4 II	4.0	644.	29.8N	76.3E	0244	81	Q 58 7XX
2072010	SR13.5 II	3.5	555.	29.8N	75.0E	0200	81	P 50 7XX
2072011	SR14.A1 II	1.3	150.	26.3N	74.8E	0400	81	Q 59 73X
2072012	SR14.A2 II	1.1	147.	26.3N	74.8E	0400	81	Q 59 73X
2072013	SR14.A3 II	1.0	91.	26.3N	74.8E	0400	81	Q 59 73X
2073001	JY01 II	5.5	222.	14.0N	74.5E	0003	79	\$ 45 7XX
2073002	JY02 II	1.1	134.	29.0N	75.0E	0350	79	W 52 7XX

Table A (continued)

SOIL DATA OF PROFILES FROM ASIA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
2073003 JY03 II	4.0	395.	24.5N	72.0E	0300	79	W 51 7XX
2073004 JY04 II	1.8	584.	26.2N	78.1E	0168	79	Y 59 50X
2073005 JY05 II	7.9	1126.	21.0N	73.5E	0500	79	Z 29 40X
2073006 JY06 II	2.3	258.	22.0N	76.0E	0372	79	Y 32 40X
2073007 JY07 II	7.8	960.	30.2N	78.0E	0600	79	K 26 7XX
2073008 JY08 II	9.3	790.	26.0N	84.5E	0466	79	Z 26 51X
2073009 JY09 II	12.6	637.	20.8N	85.1E	0300	79	Z 26 62X
2073010 JY10 II	9.7	965.	10.8N	76.7E	1260	79	# 26 640
2073011 JY11 II	12.5	1766.	30.7N	77.9E	2800	79	K 22 51X
2074001 1 II	13.3		30.0N	78.0E	640	90	? 32 7XX
2074002 2 II	8.4		30.0N	78.0E	640	90	? 32 7XX
2074003 3 II	13.2		30.0N	78.0E	640	90	? 32 7XX
2074004 4 II	9.0		30.0N	78.0E	640	90	? 32 7XX
2074005 5 II	12.1		30.0N	78.0E	640	90	? 32 7XX
2075002 284 TL	16.0	840.	18.3N	98.1E	0700	26	?
2075004 286 TL	7.4	577.	18.3N	98.1E	0700	26	?
2075008 288 TL	6.3	660.	18.3N	98.1E	0700	26	?
2075009 289 TL	3.4	269.	18.3N	98.1E	0700	26	?
2075010 290 TL	3.9	216.	18.3N	98.1E	0700	26	?
2075011 291 TL	10.8	820.	18.3N	98.1E	0700	26	?
2075012 292 TL	7.8	702.	18.3N	98.1E	0700	26	?
2075013 293 TL	9.3	676.	18.3N	98.1E	0700	26	?
2075014 294 TL	6.5	472.	18.3N	98.1E	0700	26	?
2075015 295 TL	7.2	560.	18.3N	98.1E	0700	26	?
2075016 296 TL	10.8	743.	18.3N	98.1E	0700	26	?
2075017 297A TL	2.6	175.	18.3N	98.1E	0700	26	?
2075018 297B TL	2.3	167.	18.3N	98.1E	0700	26	?
2075019 297C TL	2.7	180.	18.3N	98.1E	0700	26	?
2075020 297D TL	2.2	160.	18.3N	98.1E	0700	26	?
2075021 297E TL	2.7	191.	18.3N	98.1E	0700	26	?
2075022 298 TL	15.4	1113.	18.3N	98.1E	0700	26	?

Table A (continued)

SOIL DATA OF PROFILES FROM EUROPE

PROFILE NUMBER	CARBON		LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2	NITROGEN G/M**2					A	B	C
3001001	301	IT	2.9	299.	40.0N	9.0E	0054	33	J 31
3001002	302	IT	8.4	749.	40.1N	9.0E	0309	33	J 31
3001003	303	IT	21.9	1866.	40.2N	9.0E	0715	33	I 46
3001004	304	IT	38.6	2906.	40.2N	8.9E	0850	33	I 46
3001005	305	IT	6.7	388.	40.8N	9.0E	0300	33	J 31
3001006	306	IT	6.6	307.	40.8N	9.1E	0500	33	I 46
3001007	307	IT	19.1	1033.	40.9N	9.1E	1000	33	I 46
3001008	308	IT	14.7	925.	38.0N	14.9E	1350	33	I 46
3001009	309	IT	3.5	457.	38.1N	14.7E	0150	33	J 31
3001010	310	IT	6.8	816.	38.0N	14.8E	0850	33	J 31
3001012	312	IT	18.6	975.	38.5N	16.3E	1300	33	D 22
3001013	313	IT	21.6	1125.	38.6N	16.3E	0950	33	D 22
3001014	314	IT	10.8	900.	38.6N	16.3E	0650	33	J 31
3001015	315	IT	8.6	849.	38.5N	16.0E	0075	33	J 31
3001016	316	IT	6.8	335.	39.3N	16.6E	1300	33	J 31
3001017	317	IT	22.2	1346.	39.3N	16.5E	1600	33	D 22
3001018	318	IT	26.0	1104.	42.2N	14.1E	1900	33	D 22
3001019	319	IT	29.1	2134.	42.2N	14.1E	1500	33	D 22
3001020	320	IT	16.0	908.	42.2N	14.1E	0950	33	D 22
3001022	322	GR	4.8	529.	39.9N	21.5E	1000	33	D 22
3001023	323	GR	18.3	1088.	39.9N	21.5E	1200	33	D 22
3001024	324	GR	7.9	658.	39.9N	21.5E	1500	33	D 22
3001025	325	GR	4.0	266.	37.2N	22.2E	1600	33	I 31
3001026	326	GR	4.3	283.	37.0N	22.9E	1000	33	D 22
3001027	327	GR	17.4	1922.	37.0N	22.9E	1000	33	D 22
3001028	328	GR	13.7	1223.	37.0N	22.4E	0300	33	I 31
3001029	329	GR	7.5	724.	37.0N	22.4E	0300	33	I 31
3001030	330	GR	34.4	2831.	41.0N	23.7E	1600	33	D 22
3001031	331	GR	3.9	369.	41.0N	23.7E	1000	33	D 22
3001032	332	GR	5.5	541.	40.2N	21.9E	1000	33	D 22
3001033	333	GR	10.1	981.	40.1N	22.5E	1800	33	D 22
3001034	334	GR	5.0	436.	39.7N	22.5E	0050	33	I 31
3001035	335	GR	6.7	401.	40.8N	21.3E	1000	33	I 31
3001036	336	GR	12.8	1328.	40.8N	21.3E	1800	33	D 22
3001037	337	GR	7.2	748.	40.8N	21.4E	0770	33	D 22
3001038	338	IT	5.4	348.	43.7N	11.2E	0300	33	J 31
3001039	339	IT	10.7	1184.	43.7N	11.6E	1700	33	D 22
3001040	340	IT	11.2	833.	43.7N	11.6E	1000	33	D 22
3002001	ZV20	RS	5.5	427.	62.0N	37.0E	100	20	7 62
3002002	ZV25	RS	1.4	70.	62.0N	37.0E	100	20	7 62
3002003	ZV14	RS	1.4		62.0N	37.0E	100	20	7 62
3002004	ZV8	RS	5.2		54.7N	20.5E	050	20	D 22
3002005	ZV150	RS	7.2		54.7N	20.5E	050	20	D 22
3002006	ZV501	RS	23.4		54.7N	20.5E	050	20	D 22
3002007	ZV654	RS	6.7		54.7N	20.5E	050	20	D 25
3002008	ZV635	RS	9.1		54.7N	20.5E	050	20	D 25
3002009	ZV681	RS	5.6		54.7N	21.0E	050	20	D 22
3002010	ZV424	RS	12.3		54.7N	20.5E	050	20	D 25
3002011	ZV1109	RS	5.5		54.7N	20.5E	050	20	D 22
3003058	60808	BL	5.9	837.	50.9N	4.7E	0020	86	? 55 76X

Table A (continued)

SOIL DATA OF PROFILES FROM EUROPE

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
3003071 9854 YG	19.4	2113.	44.9N	13.9E	0050	86	?	55	72X
3003110 65716 BL	5.8	219.	51.2N	4.8E	0020	86	?	64	73X
3004001 05 NR	6.4	386.	59.5N	10.7E	0150	97	8	22	
3004002 08 NR	16.3		59.5N	10.7E	0150	97	8	23	
3004003 10 NR	16.0		60.0N	11.5E	0070	97	8	42	
3004004 11 NR	34.0	1581.	60.0N	11.5E	0100	97	8	23	
3004005 21 NR	7.2	492.	61.0N	12.0E	0170	97	8	62	
3004006 29 NR	50.4	3471.	61.5N	10.0E	0300	97	8	44	
3004007 30 NR	5.7		61.5N	10.0E	0515	97	8	23	
3004008 32 NR	6.0	405.	58.5N	8.5E	0250	97	9	57	7XX
3004009 33 NR	12.0	253.	58.5N	7.0E	0100	97	?	55	7XX
3004010 34 NR	8.8		58.5N	7.0E	0010	97	?	55	7XX
3004011 35 NR	11.2		59.5N	6.5E	0030	97	9	64	
3004012 36 NR	33.3	4948.	59.5N	6.5E	0130	97	9	42	7XX
3004013 39 NR	45.8	2179.	62.5N	6.7E	0020	97	9	64	
3004014 40 NR	18.2	1144.	62.5N	6.7E	0020	97	9	64	
3004015 41 NR	33.8	2099.	62.5N	6.7E	0120	97	9	23	7XX
3004016 42 NR	35.7	2483.	62.5N	6.7E	0070	97	?	55	7XX
3004017 43 NR	183.6	7103.	62.5N	6.7E	0015	97	9	44	8XX
3004018 46 NR	10.8	857.	71.0N	25.5E		97	7	64	
3004019 47 NR	15.2	497.	71.0N	25.5E	0010	97	7	64	
3004020 48 NR	15.3	738.	78.0N	15.0E	0002	97	3	53	
3004021 49 NR	1.9	177.	79.0N	10.4E	0005	97	3	53	
3004022 50 NR	7.0	511.	74.5N	19.0E	0006	97	3	53	7XX
3004023 51 NR	4.8	273.	74.5N	19.0E	0036	97	3	53	520
3004024 52 NR	34.0	1751.	74.5N	19.0E	0020	97	3	53	50X
3005001 1 SW	16.5		47.4N	8.0E	0570	105	8	22	520
3005002 2 SW	9.5		47.4N	8.0E	0470	105	?	55	520
3005003 3 SW	23.9		47.4N	8.0E	1030	105	9	25	520
3005004 4 SW	9.9		47.4N	8.0E	0510	105	8	25	520
3005005 5 SW	13.8		47.4N	8.0E	0495	105	?	55	520
3006001 01IT	9.6	581.	40.8N	9.3E	0583	103	J	26	00X
3006002 02IT	21.8	1211.	40.8N	9.3E	0500	103	J	26	00X
3006003 03IT	7.9	438.	40.7N	9.2E	0650	103	J	26	00X
3006004 04IT	19.3	1785.	40.2N	8.6E	0750	103	J	26	40X
3006005 09IT	7.0	340.	39.2N	8.8E	0200	103	J	26	00X
3006006 10IT	4.3	308.	39.2N	8.8E	0200	103	J	51	00X
3006007 11IT	2.3	156.	39.0N	8.8E	0300	103	J	51	00X
3006008 12IT	6.8		39.0N	8.8E	0300	103	J	27	00X
3006009 13IT	5.5	431.	39.2N	8.6E	0130	103	J	51	300
3006010 15IT	17.8	1466.	39.3N	8.6E	0850	103	J	26	524
3006011 16IT	26.6	2125.	39.3N	8.6E	0600	103	J	26	524
3007001 2 GY	14.7	1111.	51.5N	9.2E	0340	115	?		520
3007002 4 GY	8.7		48.3N	11.9E	0461	115	?		72X
3007003 9 GY	11.5	1111.	52.1N	10.9E	0105	115	?		76X
3007004 10 GY	12.4	1105.	52.1N	10.0E	0080	115	?		76X
3007005 12 GY	6.3		49.5N	8.4E	0096	115	?		7XX
3007006 13 GY	5.5	319.	50.2N	6.8E	0480	115	?		500
3007007 27 GY	5.2	227.	48.1N	12.0E	0538	115	?		7XX
3007008 31 GY	5.5	152.	52.7N	7.3E	0030	115	?		73X

Table A (continued)

SOIL DATA OF PROFILES FROM EUROPE

(CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
3007009	32 GY	4.8	202.	51.5N	9.2E	0385	115	? 50X
3007010	33 GY	5.5	218.	52.3N	7.2E	0015	115	? 70X
3007011	34 GY	11.8	526.	52.3N	7.2E	0023	115	? 70X
3007012	39 GY	5.3	458.	54.2N	10.4E	0025	115	? 7XX
3007013	41 GY	10.8	489.	51.7N	10.2E	0344	115	? 76X
3007014	45 GY	27.7	3397.	52.3N	7.2E	0017	115	? 7XX
3007015	50 GY	16.5	1375.	51.5N	10.0E	0150	115	? 76X
3008001	1 IT	9.6	1345.	42.7N	12.7E	0005	113	? 72X
3008002	2 IT	9.4	1489.	42.7N	12.7E	0005	113	? 72X
3008003	3 IT	10.0	1193.	42.7N	12.7E	0005	113	? 72X
3008004	4 IT	9.1	1263.	42.7N	12.7E	0005	113	? 72X
3009001	5 IT	5.7	701.	46.0N	14.2E	1115	114	? 525
3009002	6 IT	0.9	85.	46.0N	14.2E	1280	114	? 525
3009003	7 IT	12.8	1196.	46.0N	14.2E	1180	114	? 525
3009004	8 IT	1.5	136.	46.0N	14.2E	1170	114	? 525
3009005	9 IT	6.0	661.	46.0N	14.2E	1130	114	? 525
3009006	10 IT	10.6	1206.	46.0N	14.2E	1755	114	? 50X
3009007	11 IT	7.8	757.	46.0N	14.2E	1960	114	? 50X
3009008	12 IT	4.9	456.	46.0N	14.2E	1920	114	? 50X
3009009	13 IT	16.2	1597.	46.0N	14.2E	1790	114	? 50X
3011001	M1 NL	27.9	1935.	51.4N	3.6E	0000	116	? 7XX
3011002	M2 NL	46.4	2252.	52.5N	5.7E	-004	116	? 7XX
3011003	M3 NL	19.8	1134.	53.0N	5.5E	-0.5	116	? 7XX
3011004	M4 NL	6.1	435.	51.4N	3.6E	01.5	116	? 7XX
3011005	M5 NL	9.8	575.	51.9N	4.7E	00.5	116	? 7XX
3011006	M6 NL	9.8	525.	51.6N	3.8E	0001	116	? 72X
3011007	M7 NL	108.1	800.	52.9N	5.6E	00.5	116	? 7XX
3011008	F1 NL	24.7	1111.	51.9N	5.2E	0001	116	? 7XX
3011009	F2 NL	6.2	464.	51.9N	5.4E	0004	116	? 7XX
3011010	F3 NL	17.3	1007.	52.0N	5.5E	0007	116	? 7XX
3011011	LP1 NL	279.0	906.	52.1N	4.8E	-1.5	116	? 8XX
3011012	LP2 NL	61.0	525.	52.1N	4.5E	-5.3	116	? 8XX
3011013	LP3 NL	25.8	1296.	52.2N	4.7E	-005	116	? 7XX
3011014	RB3 NL	82.4	773.	53.2N	6.7E	0002	116	? 7XX
3011015	A1 NL	24.6	1663.	52.2N	6.5E	0018	116	? 7XX
3011016	A2 NL	43.2	1900.	52.2N	6.5E	0023	116	? 7XX
3011017	A4 NL	10.2	327.	52.0N	4.2E	0000	116	? 7XX
3011018	A5 NL	17.4	677.	53.2N	5.5E	0001	116	? 7XX
3011019	P1 NL	20.1	750.	52.1N	5.5E	0007	116	? 7XX
3011020	P2 NL	29.8	1242.	53.0N	6.2E	0004	116	? 7XX
3011021	P3 NL	15.5	218.	52.1N	5.7E	0040	116	? 7XX
3011022	P4 NL	20.0	713.	52.0N	5.7E	0040	116	? 7XX
3011023	P6 NL	13.0	843.	52.0N	5.3E	0005	116	? 7XX
3011024	L1 NL	7.6	309.	51.0N	5.8E	0055	116	? 76X
3011025	L2 NL	8.1	96.	51.0N	5.8E	0036	116	? 76X
3012001	01 SP	4.8	582.	39.5N	0.8W	0500	109	? 76X
3012002	02 SP	19.7	184.	39.5N	0.8W	0500	109	? 76X
3012003	03 SP	10.1	767.	39.4N	0.8W	0300	109	? 76X
3012004	04 SP	9.9	1032.	39.4N	0.8W	0300	109	? 76X
3012005	05 SP	22.9	1676.	39.4N	0.8W	0300	109	? 76X

SOIL DATA OF PROFILES FROM EUROPE

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
3012006 06 SP	0.7	143.	39.4N	0.8W	0300	109	?
3012007 07 SP	14.9	1234.	39.4N	0.8W	0300	109	?
3012008 34 SP	26.4	2721.	39.7N	0.4W	0400	109	?
3012009 35 SP	39.5	919.	39.7N	0.4W	0400	109	?
3012010 40 SP	50.5	955.	39.9N	0.4W	0450	109	?
3012011 60 SP	2.3		39.5N	0.4W	0050	109	?
3012012 61 SP	1.3		39.5N	0.4W	0050	109	?
3012013 301 SB	32.4		38.6N	2.1W	0900	109	?
3012014 302 SP	7.1		38.6N	2.2W	0900	109	?
3012015 303 SP	9.3		38.5N	2.4W	1300	109	?
3012016 309 SP	48.3	283.	43.2N	6.0W	0500	109	?
3012017 310 SP	20.7	203.	43.2N	6.0W	0500	109	?
3012018 319 SP	53.7	682.	43.0N	8.5W	0300	109	?
3012019 320 SP	43.2		42.6N	8.8W	0050	109	?
3012020 321 SP	45.8	847.	42.6N	8.8W	0050	109	?
3012021 322 SP	36.7	632.	42.6N	8.8W	0050	109	?
3012022 323 SP	35.5		42.6N	8.8W	0050	109	?
3012023 324 SP	91.5	619.	43.0N	9.0W	0200	109	?
3012024 325 SP	24.1	577.	43.0N	9.0W	0200	109	?
3012025 326 SP	30.1	48.	43.0N	9.0W	0200	109	?
3012026 327 SP	50.4		43.0N	9.0W	0200	109	?
3012027 328 SP	33.0	564.	43.0N	9.0W	0200	109	?
3012028 340 SP	85.0	1252.	43.0N	9.0W	0200	109	?
3012029 341 SP	60.8	1559.	43.0N	9.0W	0200	109	?
3012030 342 SP	54.0	231.	43.0N	9.0W	0200	109	?
3012031 344 SP	4.6	1205.	36.9N	3.5W	0900	109	?
3012032 345 SP	1.3	944.	36.9N	3.5W	0900	109	?
3012033 354 SP	0.0		40.4N	3.7W	0750	109	?
3012034 378 SP	83.0	3143.	42.4N	8.6W	0100	109	?
3012035 379 SP	40.4	1564.	42.4N	8.6W	0100	109	?
3012036 381 SP	99.8	2511.	42.4N	8.6W	0100	109	?
3012037 382 SP	49.0	430.	42.4N	8.6W	0100	109	?
3012038 383 SP	38.4	758.	42.4N	8.6W	0100	109	?
3012039 384 SP	35.0	870.	42.4N	8.6W	0100	109	?
3012040 385 SP	57.7	850.	42.4N	8.6W	0100	109	?
3012041 386 SP	21.5	594.	42.4N	8.6W	0100	109	?
3012042 387 SP	12.0	326.	42.4N	8.6W	0100	109	?
3011026 L3 NL	13.7	467.	50.9N	5.9E	0090	116	? 534

Table A (continued)

SOIL DATA OF PROFILES FROM AFRICA

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
4001001	B1533GH	2.1	193.	10.0N	2.2W	0300	61	Y 43
4001002	B1228GH	2.8	164.	10.0N	2.2W	0300	61	Y 43
4001003	B1534GH	2.1	290.	10.0N	2.2W	0300	61	Y 43
4001004	B1144GH	2.1	253.	10.0N	2.2W	0300	61	Y 43
4001005	B1136GH	5.0	450.	10.0N	2.2W	0300	61	Y 43
4002001	30PG	3.8	309.	11.8N	15.5W		29	P 43
4002002	196PG	4.4	334.	11.8N	15.5W		29	P 43
4002003	355PG	5.0	338.	11.8N	15.5W		29	P 43
4002004	411PG	4.3	371.	11.8N	15.5W		29	P 43
4002005	234PG	4.8	309.	11.8N	15.5W		29	P 43
4002006	27PG	5.0	330.	11.8N	15.5W		29	P 43
4002007	392PG	3.8	290.	11.8N	15.5W		29	P 43
4002008	72PG	7.2	397.	11.8N	15.5W		29	P 43
4002009	153PG	4.8	376.	11.8N	15.5W		29	P 43
4002010	258PG	5.6	322.	11.8N	15.5W		29	P 43
4002011	186PG	6.2	421.	11.8N	15.5W		29	P 43
4002012	151PG	11.8	597.	11.8N	15.5W		29	P 43
4002013	118PG	5.8	441.	11.8N	15.5W		29	P 43
4002014	216PG	5.2	395.	11.8N	15.5W		29	P 43
4002015	385PG	5.8	344.	11.8N	15.5W		29	P 43
4002016	332PG	9.0	539.	11.8N	15.5W		29	P 43
4002017	301PG	2.0	160.	11.8N	15.5W		29	P 43
4002018	145PG	5.3	364.	11.8N	15.5W		29	Z 29
4002019	68PG	46.7	3911.	11.8N	15.5W		29	29
4002020	402PG	2.2	166.	11.8N	15.5W		29	Z 29
4003001	7.1.1 GH	8.7	933.	6.7N	1.6W	100	69	Z 29 61X
4003002	7.1.2 GH	7.8	807.	6.3N	2.3W	100	69	Z 29 61X
4003003	7.1.3 IC	6.8	303.	5.9N	4.2W	100	69	# 29 64X
4003004	7.2.1 NG	3.6	294.	12.0N	6.0E	100	69	Y 43 70X
4003005	7.2.2 NG	2.2	260.	12.0N	6.0E	100	69	Y 43 70X
4003006	7.2.3 GH	6.3	519.	10.0N	0.0E	100	69	Z 43 00X
4004001	2 SL	3.7	244.	8.5N	13.3W	050	72	? 31
4004002	1 GUI	7.8	503.	9.5N	13.7W	050	72	Z 23
4004003	7 GUI	3.3	394.	10.8N	10.9W	400	72	? 43
4004004	8 GUI	6.4	514.	10.4N	9.2W	400	72	Z 24
4004005	9 GUI	7.9	466.	9.2N	9.0W	800	72	Z 24
4004006	1 IC	1.7	103.	8.0N	2.2W	500	72	Z 24
4004007	4 IC	5.1	329.	8.0N	2.2W	500	72	Z 24
4004008	5 IC	2.6	346.	8.0N	2.2W	500	72	Z 24
4004009	6 IC	12.2	1127.	8.0N	2.2W	500	72	? 43
4004010	1 GH	3.2	576.	9.5N	2.3W	500	72	Z 24
4004011	2 DA	1.5	117.	9.0N	2.7E	400	72	Y 43
4004012	4 NG	13.9	1109.	9.6N	8.3E	1000	72	? 43
4005001	PH01 KE	14.1	1835.	1.2S	36.7E	1750	87	? 26
4005002	PH02 KE	17.3	2141.	1.2S	36.7E	1750	87	? 26
4005003	PH03 KE	36.6	4223.	0.6S	36.7E	2500	87	? 27
4005004	PH04 TZ	12.2	1619.	4.8S	38.3E	1750	87	Z 29
4005005	PH05 TZ	56.9	3591.	8.1S	35.9E	1750	87	Q 29
4005006	PH06 UG	10.4	1069.	0.5N	33.2E	1250	87	R 29
4005007	PH07 UG	22.0	3357.	0.7N	30.3E	1250	87	Q 29

Table A (continued)

SOIL DATA OF PROFILES FROM AFRICA

(CONT.)

PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
4006001	SG01 TZ	5.8	539.	4.3S	36.7E	1247	2	Q 51	64X	
4006002	SG02 TZ	2.3	250.	5.6S	34.6E	1335	2	Q 51	00X	
4006003	SG03 TZ	7.0	455.	4.3S	34.1E	1050	2	Q 31	7XX	
4006004	SG04 TZ	1.6	222.	3.8S	34.9E	1035	2	Q 31	7XX	
4006005	SG05 TZ	5.6	1365.	4.2S	35.0E	1729	2	Q 31	00X	
4006006	SG06 TZ	5.9	706.	5.7S	38.3E	0500	2	Z 31	6XX	
4006007	SG07 TZ	3.8	404.	4.7S	38.7E	0349	2	Z 31	64X	
4006008	SG08 TZ	2.7	265.	5.9S	38.8E	0012	2	Z 58	73X	
4006009	SG09TZ	37.5	2468.	4.7S	38.3E	1910	2	Z 26	64X	
4006010	SG10TZ	10.1	1036.	3.4S	36.4E	1328	2	Q 31	52X	
4007001	081-I1T NG	5.5	650.	8.7N	3.7E	0405	124	?	62X	
4007002	082-I1U NG	6.9	788.	8.7N	3.7E	0400	124	?	62X	
4007003	083-I1L NG	3.8	453.	8.7N	3.7E	0383	124	?	7XX	
4007004	084-I1V NG	4.9	661.	8.7N	3.7E	0378	124	?	7XX	
4007005	072-I2T NG	6.3	838.	8.1N	3.3E	0300	124	?	62X	
4007006	073-I2U NG	8.6	835.	8.1N	3.3E	0288	124	?	7XX	
4007007	067-I2L NG	7.2	630.	8.1N	3.3E	0285	124	?	620	
4007008	074-I2V NG	8.6	852.	8.1N	3.3E	0280	124	?	7XX	
4007009	056-I3T NG	2.9	436.	7.5N	3.9E	0207	124	?	64X	
4007010	055-I3U NG	6.6	1049.	7.5N	3.9E	0223	124	?	64X	
4007011	065-I3U/L NG	2.8	419.	7.5N	3.9E	0210	124	?	64X	
4007012	066-I3L NG	3.9	607.	7.5N	3.9E	0208	124	?	64X	
4007013	057-I3V NG	5.8	776.	7.5N	3.9E	0198	124	?	64X	
4007014	090-I4U NG	9.2	1290.	7.5N	4.4E	0240	124	?	64X	
4007015	091-I4L NG	4.3	501.	7.5N	4.4E	0230	124	?	64X	
4007016	089-I4V NG	3.0	381.	7.5N	4.4E	0225	124	?	7XX	
4007017	086-I5T NG	5.9	911.	6.8N	4.9E	0115	124	?	641	
4007018	085-I5U NG	6.8	926.	6.8N	4.9E	0100	124	?	641	
4007019	088-I5L NG	5.2	706.	6.8N	4.9E	0105	124	?	640	
4007020	087-I6V NG	15.0	914.	6.8N	4.9E	0090	124	?	640	
4007021	097-I6T NG	4.9	671.	5.4N	8.3E	115.	124	?	040	
4007022	099-I6U NG	8.7	1028.	5.4N	8.3E	0105	124	?	040	
4007023	100-I6L NG	3.8	580.	5.4N	8.3E	0110	124	?	00X	
4007024	098-I6V NG	8.5	695.	5.4N	8.3E	0095	124	?	00X	
4007025	092-A2T NG	8.8	1019.	7.9N	4.1E	0350	124	?	68X	
4007026	093-A2L NG	5.5	771.	7.9N	4.1E	0300	124	?	626	
4007027	070-A4U NG	7.9	1093.	7.2N	4.7E	0234	124	?	68X	
4007028	071-A4L NG	6.1	811.	7.2N	4.7E	0198	124	?	68X	
4007029	095-A6T NG	10.9	1409.	5.4N	8.3E	0140	124	?	620	
4007030	094-A6L NG	10.4	1234.	5.4N	8.3E	0120	124	?	620	
4007031	096-A6V NG	3.9	484.	5.4N	8.3E	0105	124	?	7XX	
4007032	076-B4T NG	12.1	1882.	7.4N	4.5E	0320	124	?	63X	
4007033	075-B4U NG	7.9	1333.	7.4N	4.5E	0300	124	?	63X	
4007034	078-B4L NG	8.3	1465.	7.4N	4.5E	0290	124	?	63X	
4007035	110-B4L/V NG	11.2	1364.	7.4N	4.5E	0280	124	?	63X	
4007036	080-S3T NG	6.3	1064.	6.8N	3.7E	0055	124	?	7XX	
4007037	069-S3U NG	3.4	567.	6.8N	3.7E	0029	124	?	7XX	
4007038	079-S3L NG	4.0	627.	6.8N	3.7E	0026	124	?	7XX	
4007039	068-S3V NG	2.9	367.	6.8N	3.7E	0024	124	?	7XX	
4008001	OM3 MR	3.7	895.	34.1N	5.0W	0475	117	?	720	

Table A (continued)

SOIL DATA OF PROFILES FROM AFRICA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY		
							A	B	C
4008002	OMP2 MR	6.5	1159.	34.1N	5.0W	0475	117	?	720
4008003	OMP1 MR	6.6	982.	34.1N	5.0W	0475	117	?	720
4008004	OM5 MR	8.7	1236.	34.1N	5.0W	0475	117	?	720
4008005	OLP1 MR	9.3	10725.	34.1N	5.0W	0475	117	?	720
4008006	AK1 MR	9.5	1196.	34.1N	5.0W	0475	117	?	720
4008007	AJ1 MR	6.3	838.	34.1N	5.0W	0475	117	?	720
4008008	EA1 MR	6.2	1138.	34.1N	5.0W	0475	117	?	720
4008009	EAP6 MR	9.6	1247.	34.1N	5.0W	0475	117	?	720
4008010	EAP9 MR	10.2	1248.	34.1N	5.0W	0475	117	?	720
4008011	AKP1 MR	3.1	966.	34.1N	5.0W	0475	117	?	720
4008012	EA11 MR	4.0	1014.	34.1N	5.0W	0475	117	?	720
4008013	OMP3 MR	0.0		34.1N	5.0W	0475	117	?	720
4008014	OM1 MR	4.1	356.	34.1N	5.0W	0475	117	?	720
4009001	EAP5 MR	5.0	451.	34.9N	5.6W	0415	118	?	7XX
4009002	EAP2 MR	3.3	374.	34.9N	5.6W	0450	118	?	7XX
4009003	EAP12 MR	8.8	1023.	34.9N	5.6W	0370	118	?	7XX
4010001	EAP6 MR	3.8	440.	34.9N	5.6W	0250	119	?	720
4010002	RD-EAP2 MR	534.5	969.	34.9N	5.6W	0285	119	?	720
4010003	RD-EAP10 MR	15.2	1436.	34.9N	5.6W	0325	119	?	720
4010004	RD-EAP4 MR	20.0	2117.	34.9N	5.6W	0390	119	?	720
4010005	RD-EAP11 MR	11.5	2809.	34.9N	5.6W	0250	119	?	720
4010006	RD-EAP14 MR	15.4	1258.	34.9N	5.6W	0310	119	?	720
4010007	RD-EAP15 MR	13.0	1121.	34.9N	5.6W	0240	119	?	720
4011006	122 SA	11.1	1266.	29.2S	30.0E	1432	128	?	50X
4011009	125 SA	7.4	984.	28.3S	30.3E	1402	128	?	510
4011012	128 SA	12.4	1399.	27.4S	29.9E	1615	128	?	50X
4011014	130 SA	17.3	2014.	29.2S	30.0E	1524	128	?	40X
4011024	140 SA	17.9	1406.	28.5S	30.5E	1524	128	?	50X
4011025	141 SA	10.1		29.0S	29.4E	1249	128	?	510
4011026	142 SA	18.9	1783.	29.2S	30.0E	1524	128	?	510
4011042	158 SA	24.1	2022.	29.4S	29.9E	1463	128	?	510
4011043	159 SA	15.8	1461.	29.2S	29.9E	1463	128	?	59X
4011044	160 SA	11.5	1007.	29.0S	29.7E	1402	128	?	59X
4011045	161 SA	19.0	1626.	29.1S	30.0E	1524	128	?	59X
4011053	169 SA	12.9	1520.	29.1S	30.0E	1524	128	?	510
4011054	170 SA	16.3	1368.	29.4S	29.9E	1493	128	?	5XX
4011055	171 SA	17.6	1575.	28.5S	30.4E	1524	128	?	59X
4011057	173 SA	21.2	1699.	29.2S	29.8E	1584	128	?	59X
4011058	174 SA	26.3	1482.	29.3S	29.8E	1584	128	?	59X
4011061	177 SA	76.3	4107.	29.5S	29.9E	1676	128	?	7XX
4011063	179 SA	25.3		30.0S	29.1E	1524	128	?	7XX
4011080	196 SA	6.5	660.	29.2S	29.8E	1524	128	?	510
4011088	204 SA	20.8	1610.	28.4S	30.4E	1554	128	?	510
4011089	205 SA	8.1	659.	28.6S	30.9E	1524	128	?	50X
4011116	234 SA	10.0	1189.	28.3S	30.3E	1463	128	?	7XX
4011013	129 SA	17.1	1429.	29.5S	30.2E	1219	128	?	510
4011019	135 SA	13.4	1083.	29.0S	30.7E	1066	128	?	510
4011027	143 SA	0.0		29.8S	30.3E	838	128	?	510
4011059	175 SA	54.8		29.6S	30.9E	549	128	?	50X
4011060	176 SA	26.2	1890.	29.5S	30.1E	1219	128	?	59X

Table A (continued)

SOIL DATA OF PROFILES FROM AFRICA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
4011069 185 SA	29.1	2122.	29.0S	30.8E	1188	128	?		50X
4011071 187 SA	24.8	1611.	29.4S	30.2E	1112	128	?		7XX
4011073 189 SA	29.3		31.4S	29.7E	457	128	?		7XX
4011081 197 SA	8.0	480.	29.0S	30.8E	1280	128	?		5XX
4011087 203 SA	21.6	1429.	28.7S	31.1E	1219	128	?		68X
4011090 206 SA	15.5	1106.	28.7S	31.1E	1066	128	?		7XX
4011098 214 SA	24.2	1750.	29.5S	30.2E	1158	128	?		40X
4011115 233 SA	14.5	1697.	29.3S	30.3E	1066	128	?		7XX
4011004 120 SA	7.8	752.	29.2S	30.1E	1341	128	?		70X
4011005 121 SA	10.2	706.	29.2S	30.2E	1402	128	?		50X
4011007 123 SA	6.6	718.	28.1S	30.2E	1341	128	?		50X
4011015 131 SA	11.1	1052.	28.7S	29.3E	1188	128	?		510
4011016 132 SA	9.2		28.8S	29.5E	1066	128	?		510
4011017 133 SA	9.2	1138.	28.7S	29.3E	1158	128	?		510
4011018 134 SA	3.7	459.	28.1S	30.6E	1219	128	?		50X
4011031 147 SA	9.6	836.	28.8S	29.5E	1036	128	?		59X
4011032 148 SA	18.0	1300.	29.2S	30.0E	1524	128	?		59X
4011033 149 SA	12.5	936.	28.8S	29.5E	1036	128	?		59X
4011037 153 SA	5.8	772.	28.1S	30.6E	1219	128	?		50X
4011046 162 SA	5.9	645.	28.2S	30.2E	1280	128	?		50X
4011047 163 SA	12.4		28.7S	29.4E	1127	128	?		7XX
4011048 164 SA	11.3	1156.	28.2S	30.3E	1219	128	?		59X
4011056 172 SA	2.5	245.	29.2S	30.1E	1310	128	?		7XX
4011064 180 SA	10.5		28.7S	29.1E	1310	128	?		7XX
4011065 181 SA	11.6		28.7S	29.3E	1188	128	?		7XX
4011066 182 SA	17.4	1180.	29.2S	30.1E	1341	128	?		7XX
4011077 193 SA	3.6	292.	29.2S	30.1E	1310	128	?		7XX
4011083 199 SA	5.6	530.	29.2S	30.0E	1524	128	?		7XX
4011086 202 SA	7.2	935.	28.8S	29.5E	1066	128	?		510
4011106 224 SA	15.2	1709.	27.9S	29.9E	1219	128	?		40X
4011107 225 SA	20.9	1347.	28.1S	30.1E	1066	128	?		40X
4011108 226 SA	10.2	1052.	28.0S	29.7E	1310	128	?		50X
4011110 228 SA	1.1	180.	28.0S	30.0E	1280	128	?		50X
4011114 232 SA	21.2	1906.	28.1S	30.0E	1280	128	?		7XX
4011117 235 SA	17.2	1247.	28.1S	30.2E	1188	128	?		7XX
4011118 236 SA	9.9		28.8S	29.5E	1036	128	?		7XX
4011119 237 SA	12.3	1052.	28.1S	20.3E	1158	128	?		7XX
4011120 238 SA	4.1	959.	28.1S	29.8E	1310	128	?		7XX
4011121 239 SA	13.2	1062.	28.1S	30.2E	1188	128	?		7XX
4011122 240 SA	15.5		28.7S	29.4E	1097	128	?		7XX
4011001 117 SA	12.8		28.6S	29.6E	1036	128	?		40X
4011002 118 SA	11.0	773.	28.0S	30.4E	1219	128	?		40X
4011003 119 SA	13.8	1027.	28.5S	20.8E	1097	128	?		59X
4011008 124 SA	4.1	894.	28.0S	30.3E	1158	128	?		50X
4011010 126 SA	4.8	631.	29.0S	29.7E	1127	128	?		516
4011011 127 SA	8.7	832.	28.6S	29.7E	1127	128	?		50X
4011020 136 SA	6.0	689.	28.6S	29.9E	1036	128	?		59X
4011021 137 SA	5.4	566.	27.8S	30.4E	1249	128	?		50X
4011022 138 SA	9.9	1027.	29.1S	30.2E	1188	128	?		59X
4011034 150 SA	3.3	487.	28.1S	30.5E	1188	128	?		50X

Table A (continued)

SOIL DATA OF PROFILES FROM AFRICA

(CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
4011035 151 SA	3.3	480.	28.3S	30.5E	1219	128	? 50X
4011036 152 SA	4.9	919.	27.9S	30.2E	1219	128	? 50X
4011038 154 SA	3.9	814.	29.0S	29.7E	1219	128	? 510
4011039 155 SA	6.7		28.7S	29.4E	1158	128	? 510
4011040 156 SA	7.1	1195.	29.0S	29.8E	1249	128	? 510
4011041 157 SA	6.8	1114.	29.1S	30.2E	1219	128	? 50X
4011049 165 SA	7.8	985.	28.8S	30.3E	945	128	? 59X
4011050 166 SA	7.8	867.	27.7S	30.3E	1219	128	? 7XX
4011062 178 SA	4.4		27.7S	30.3E	1219	128	? 504
4011068 184 SA	1.2		28.6S	29.7E	1127	128	? 50X
4011070 186 SA	3.8		28.3S	30.5E	1097	128	? 50X
4011072 188 SA	3.1	479.	28.3S	30.5E	1097	128	? 50X
4011075 191 SA	6.9	949.	28.5S	30.2E	1036	128	? 7XX
4011076 192 SA	3.9	739.	28.2S	30.5E	1097	128	? 7XX
4011082 198 SA	4.2	865.	28.8S	30.3E	1036	128	? 7XX
4011085 201 SA	2.2	231.	28.4S	30.2E	1036	128	? 50X
4011091 207 SA	3.2	501.	28.5S	30.3E	1127	128	? 50X
4011092 208 SA	10.7	1163.	28.3S	30.1E	1066	128	? 7XX
4011093 209 SA	8.7		28.7S	29.4E	1127	128	? 7XX
4011096 212 SA	6.9	545.	28.6S	29.9E	975	128	? 40X
4011097 213 SA	5.4	661.	28.0S	30.4E	1127	128	? 7XX
4011100 217 SA	4.9	617.	28.5S	30.2E	1005	128	? 5XX
4011102 219 SA	7.0	780.	28.8S	29.7E	1005	128	? 510
4011105 222 SA	2.6	839.	28.4S	30.2E	1036	128	? 50X
4011109 227 SA	11.3	1064.	29.1S	29.9E	1219	128	? 510
4011112 230 SA	5.2		28.4S	30.2E	1036	128	? 50X
4011028 144 SA	31.2	2142.	28.9S	30.2E	610	128	? 63X
4011029 145 SA	14.8	1137.	28.9S	31.2E	610	128	? 63X
4011099 216 SA	12.1	1072.	28.9S	31.2E	762	128	? 62X
4011030 146 SA	6.1	687.	28.5S	30.1E	914	128	? 59X
4011051 167 SA	8.2	824.	28.6N	30.1E	914	128	? 59X
4011074 190 SA	6.7	832.	28.5S	30.1E	853	128	? 7XX
4011084 200 SA	2.7	322.	28.8S	30.3E	914	128	? 5XX
4011094 210 SA	7.9	1324.	28.9S	29.9E	1066	128	? 70X
4011101 218 SA	12.6	1129.	28.5S	30.0E	945	128	? 7XX
4011103 220 SA	7.2	850.	28.7S	30.2E	762	128	? 7XX
4011104 221 SA	4.1	414.	28.7S	30.4E	518	128	? 7XX
4011111 229 SA	8.3	954.	28.9S	30.1E	853	128	? 7XX
4011067 183 SA	14.2	1089.	28.8S	30.9E	274	128	? 7XX
4011023 139 SA	113.0		29.1S	29.4E	1524	128	? 59X
4011052 168 SA	4.2		30.2S	30.7E	152	128	? 64X
4011113 231 SA	5.7		29.5S	31.1E	152	128	? 584
4011078 194 SA	12.2	1081.	28.5S	31.0E	975	128	? 7XX
4011079 195 SA	3.5	268.	28.6S	29.9E	975	128	? 7XX
4011095 211 SA	9.6	841.	29.3S	30.0E	1493	128	? 516

Table A (continued)

SOIL DATA OF PROFILES FROM AUSTRALIA

PROFILE NUMBER	CARBON		NITROGEN		LATITUDE	LONGITUDE	ELEV. M	SOURCE CATEGORY		
	KG/M**2		G/M**2					A	B	C
5001001	200	AU	21.6	1291.	37.0S	147.3E	0984	102	D	25
5001002	202	AU	6.7	453.	36.2S	147.3E	0230	102	D	46
5001003	203	AU	10.6	604.	36.2S	147.3E	0394	102	D	46
5001004	204	AU	10.2	964.	36.2S	147.3E	0330	102	D	48
5001005	211	AU	9.9	688.	26.7S	147.7E	0650	102	D	46
5001006	212	AU	11.5	944.	37.2S	147.5E	0650	102	D	48
5001007	215	AU	3.7	260.	37.3S	147.7E	0492	102	D	46
5001008	217	AU	8.9	827.	36.5S	147.3E	0328	102	D	48
5001009	220	AU	11.8	480.	36.5S	147.5E	0328	102	D	46
5001010	223	AU	19.7	1209.	37.0S	147.5E	1640	102	D	40
5001011	224	AU	14.6	705.	37.0S	147.5E	1476	102	D	40
5001012	348	AU	18.7	1432.	36.5S	147.2E	0230	102	D	46
5002001	QL01	AU	11.0	1687.	27.7S	151.5E	0300	104	Q	58 7XX
5002002	QL02	AU	20.9	1179.	27.7S	151.5E	0300	104	Q	58 7XX
5002003	QL03	AU	19.5	1123.	27.7S	151.5E	0300	104	Q	58 7XX
5002004	QL04	AU	20.0	1488.	27.7S	151.5E	0300	104	Q	32 400
5002005	QL05	AU	9.2	439.	26.7S	153.2E	0050	104	R	32 7XX
5002006	QL06	AU	29.1	2283.	26.7S	153.2E	0050	104	O	58 7XX
5002007	QL07	AU	12.8	1637.	26.7S	153.2E	0050	104	R	32 7XX
5002008	QL08	AU	11.5	835.	26.7S	153.2E	0050	104	R	32 7XX

Table A (continued)

SOIL DATA OF PROFILES FROM CARRIBEAN

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
6003001 534A AI	3.8	369.	37.5N	25.5W		26	?
6003002 534B AI	4.8	533.	37.5N	25.5W		26	?
6003003 534C AI	10.9	903.	37.5N	25.5W		26	?
6004001 BA1 CU	6.6	871.	22.5N	82.0W	0100	80	Z 29
6004002 BA2 CU	7.4	192.	20.3N	75.0W	0300	80	Z 29
6005014 61-PR-8-5	9.6	841.	18.2N	66.9W	0200	86	? 58 7XX
6005019 61-PR-4-2	5.6	451.	18.2N	66.3W	0350	86	? 29 359
6005050 58-PR-4-6	5.9	690.	18.2N	66.2W	0100	86	? 29 72X
6005056 61-PR-9-1	9.3	1001.	18.5N	66.1W	0010	86	? 58 7XX
6005075 58-PR-9-1	15.1	1308.	18.4N	60.2W	0003	86	? 29 7XX
6005077 61-PR-10-1	23.3	2017.	18.2N	66.3W	0350	86	? 41 35X
6005083 58-PR-4-4	11.1	1054.	18.2N	66.2W	0350	86	? 41 7XX
6005084 57-PR-14-2	10.0	935.	18.1N	67.1W	0100	86	? 56 7XX
6005085 57-PR-8-1	34.3	1751.	18.2N	167.2W	0100	86	? 29 21X
6005087 63-PR-7-1	14.4	1523.	18.2N	66.2W	0100	86	? 31 72X
6005089 59-PR-10-8	16.7	1827.	18.2N	66.3W	0585	86	? 58 359
6005117 63-PR-16-2	12.8	1247.	18.3N	66.0W	0350	86	? 29 7XX
6005119 61-PR-14-9	13.6	1230.	18.1N	67.1W	0100	86	? 31 7XX
6006001 1 CI	11.5	940.	28.1N	16.6W	2200	111	? 32X
6006002 2 CI	7.3	810.	28.1N	16.5W	2030	111	? 400
6006003 3 CI	4.1	245.	28.1N	16.5W	0800	111	? 400
6006004 4 CI	3.6	552.	28.1N	16.5W	1250	111	? 400
6006005 5 CI	2.2	545.	28.1N	16.5W	0350	111	? 400
6006006 6 CI	3.0	615.	28.1N	16.4W	0160	111	? 406
6006007 7 CI	8.4	892.	28.2N	16.4W	0250	111	? 400
6006008 8 CI	3.2	551.	28.1N	16.7W	0260	111	? 400
6006009 9 CI	25.8	2777.	28.3N	16.4W	1100	111	? 406
6006010 10 CI	43.3	4083.	28.3N	16.5W	0920	111	? 406
6006011 11 CI	7.2	884.	28.3N	16.4W	0750	111	? 406
6006012 12 CI	16.7	1645.	28.6N	16.2W	1000	111	? 400
6006013 13 CI	25.7	2096.	28.6N	16.2W	1000	111	? 400
6006014 14 CI	17.8	1851.	28.5N	16.2W	0825	111	? 406
6006015 15 CI	9.0	1166.	28.5N	16.2W	0700	111	? 406
6006016 16 CI	4.7	709.	28.6N	16.2W	0050	111	? 406
6007001 17 CI	35.3	3927.	28.3N	16.5W	1060	112	? 400
6007002 18 CI	16.7	16748.	28.3N	16.5W	1060	112	? 406
6007003 19 CI	53.1	3866.	28.3N	16.5W	1200	112	? 400
6007004 20 CI	12.4	357.	28.3N	16.5W	1000	112	? 400
6007005 21 CI	33.2	2550.	28.3N	16.5W	0950	112	? 406
6007006 22 CI	24.9	1677.	28.3N	16.5W	1200	112	? 406
6007007 23 CI	24.5	2679.	28.3N	16.5W	2400	112	? 400
6007008 24 CI	15.4	587.	28.3N	16.5W	1100	112	? 406
6007009 25 CI	29.3	2766.	28.5N	16.2W	0900	112	? 400
6007010 27 CI	19.4	1341.	28.3N	16.5W	1200	112	? 406
6007011 28 CI	29.4	2964.	28.3N	16.5W	2200	112	? 406
6007012 29 CI	9.7	924.	28.3N	16.5W	1200	112	? 406
6007013 30 CI	7.3	358.	28.3N	16.5W	1020	112	? 406

Table A (continued)

SOIL DATA OF PROFILES FROM PACIFIC ISLANDS

PROFILE NUMBER	CARBON		NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE		
	KG/M**2	G/M**2					M	A	B C
7001001 SK4 JP	28.0	1588.		33.7N	133.8E	1720	91	L	22
7001002 SK8 JP	14.2	1217.		33.7N	133.8E	0850	91	L	22
7001003 SK9 JP	31.1	1675.		33.7N	133.8E	0930	91	L	22
7001004 SK10 JP	16.5	1049.		33.7N	133.8E	1070	91	L	22
7001005 SK11 JP	22.6	2003.		33.7N	133.8E	1000	91	L	22
7001006 SK12 JP	31.0	1987.		33.7N	133.8E	0930	91	L	22
7001007 SK13 JP	22.7	1456.		33.7N	133.8E	0950	91	L	22
7001008 SK15 JP	20.7			33.7N	133.8E	1330	91	L	22
7001009 SK16 JP	28.7	1876.		33.7N	133.8E	0960	91	L	22
7001010 SK17 JP	15.7	755.		33.7N	133.8E	1140	91	L	22
7001011 SK18 JP	29.3	1886.		33.7N	133.8E	0840	91	L	22
7001012 SK20 JP	32.7	2537.		33.7N	133.8E	0850	91	L	22
7001013 SK21	17.4	1410.		33.7N	133.8E	1300	91	L	22
7001014 SK23	26.3	1720.		33.7N	133.8E	1200	91	L	22
7001015 SK24 JP	13.3	1242.		33.7N	133.8E	1200	91	L	22
7001016 SK25	27.7	2160.		33.7N	133.8E	1560	91	L	22
7001017 SK26 JP	33.9	1968.		33.7N	133.8E	1260	91	L	22
7001018 SK27 JP	22.1	1845.		33.7N	133.8E	1260	91	L	22
7001019 SK28 JP	67.7	3905.		33.7N	133.8E	0960	91	L	22
7001020 SK29 JP	63.5	3963.		33.7N	133.8E	0580	91	L	22
7001021 SK30 JP	68.3	3758.		33.7N	133.8E	0660	91	L	22
7001022 SK31 JP	39.9	2323.		33.7N	133.8E	0750	91	L	22
7001023 SK32 JP	9.0	900.		33.7N	133.8E	0900	91	L	22
7001024 SK33 JP	12.6	1756.		33.7N	133.8E	0820	91	L	22
7001025 SK34 JP	33.6	2998.		33.7N	133.8E	0800	91	L	22
7001026 SK35 JP	28.5	1921.		33.7N	133.8E	0700	91	L	22
7001027 SK36 JP	26.7	1900.		33.7N	133.8E	0720	91	L	22
7001028 SK37 JP	26.3	494.		33.7N	133.8E	0720	91	L	22
7002001 IM1 JP	5.8			37.7N	139.3E	0770	92	K	25
7002002 IM2 JP	7.5			37.7N	139.3E	0700	92	K	25
7002003 IM3 JP	2.2			37.7N	139.3E	0440	92	K	25
7002004 IM7 JP	10.2			37.7N	139.3E	0260	92	K	25
7002005 IM8 JP	11.6			37.7N	139.3E	0180	92	K	25
7002006 IM11 JP	36.2			37.7N	139.3E	0260	92	K	25
7002007 IM12 JP	9.2			37.7N	139.3E	0400	92	K	25
7002008 IM13 JP	23.5			37.7N	139.3E	0380	92	K	25
7002009 IM14 JP	24.9			37.7N	139.3E	0660	92	K	25
7003001 TY1 JP	61.7	2841.		43.8N	144.0E	0240	93	E	22
7003002 TY2 JP	28.1	2120.		42.8N	142.0E	0190	93	E	22
7003003 TY3 JP	38.2	1486.		42.0N	140.5E	0200	93	E	22
7003004 TY4 JP	44.3	2174.		43.0N	144.0E	0100	93	E	22
7003005 TY5 JP	14.2	1162.		43.0N	142.0E	0250	93	E	22
7003006 TY6 JP	45.0	2501.		42.7N	142.3E	0400	93	E	22
7003007 TY7 JP	31.7	1965.		42.0N	140.5E	0140	93	E	22
7003008 TY8 JP	15.0	1120.		43.8N	143.8E	0100	93	E	22
7003009 TY9 JP	11.0	838.		42.8N	142.0E	0200	93	E	22
7003010 TY10 JP	21.4	1178.		43.0N	141.0E	0250	93	E	22
7003011 TY11 JP	13.9	800.		44.3N	143.0E	0140	93	E	22
7003012 TY12 JP	20.5	1392.		42.7N	143.0E	0140	93	E	22
7003013 TY13 JP	15.8	841.		43.8N	143.8E	0140	93	E	22

Table A (continued)

SOIL DATA OF PROFILES FROM PACIFIC ISLANDS (CONT.)

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
7003014 TY14 JP	12.7	632.	43.8N	143.8E	0190	93	E	22	
7003015 TY15 JP	18.6	1478.	43.8N	143.8E	0190	93	E	22	
7003016 TY16 JP	10.5	872.	43.0N	142.0E	0200	93	E	22	
7003017 TY17 JP	9.5	652.	43.0N	142.0E	0230	93	E	22	
7003018 TY18 JP	12.2	929.	43.0N	142.0E	0260	93	E	22	
7003019 TY19 JP	13.7	1053.	43.0N	142.0E	0300	93	E	22	
7003020 TY20 JP	15.1	960.	43.0N	141.0E	0150	93	E	22	
7003021 TY21 JP	14.6	918.	43.8N	143.8E	0410	93	E	22	
7003022 TY22 JP	43.9	2562.	43.8N	145.0E	0120	93	E	22	
7003023 TY23 JP	17.1	711.	43.8N	144.0E	0300	93	E	22	
7003024 TY24 JP	15.6	956.	42.0N	140.5E	0400	93	E	22	
7003025 TY25 JP	33.1	1464.	42.0N	140.5E	0100	93	E	22	
7003026 TY26 JP	30.1	1782.	43.0N	144.8E	0100	93	E	22	
7003027 TY27 JP	87.2	6247.	43.0N	141.0E	0420	93	E	22	
7003028 TY28 JP	25.2	1711.	42.0N	140.5E	0400	93	E	22	
7003029 TY29 JP	28.1	1851.	42.7N	142.3E	0560	93	E	22	
7003030 TY30 JP	19.9	1287.	42.8N	142.0E	0130	93	E	22	
7003031 TY31 JP	13.8	949.	43.8N	144.0E	0400	93	E	22	
7003032 TY32 JP	68.8	3211.	43.8N	145.0E	0130	93	E	22	
7003033 TY33 JP	31.7	1470.	43.0N	144.8E	0100	93	E	22	
7003034 TY34 JP	15.0	931.	43.0N	142.0E	0085	93	E	22	
7003035 TY35 JP	75.2	4152.	43.0N	144.0E	0450	93	E	22	
7004007 65-HA-4-23	45.2	3656.	20.8N	156.3W	0705	86	?	31	7XX
7004008 65-HA-4-22	32.3	2292.	20.7N	156.4W	0550	86	?	31	7XX
7004009 62-HA-1-1	97.5	5632.	20.0N	155.5W	0660	86	?	29	7XX
7004010 65-HA-1-13	21.5	2395.	19.9N	155.4W	2190	86	?	31	7XX
7004088 62-HA-2-5	31.1	1888.	21.2N	159.5W	0096	86	?	31	4XX
7004090 63-HA-2-2	25.1	1833.	22.0N	159.4W	0090	86	?	31	40X
7004091 61-HA-7-5	13.7	1416.	21.3N	157.8W	0096	86	?	29	7XX
7005001 SS1 JP	41.3		40.6N	141.0E	1400	99	F	22	
7005002 SS2 JP	37.5		40.6N	141.0E	1000	99	F	23	
7005003 SS3 JP	40.0		40.6N	141.0E	0700	99	E	23	
7005004 SS4 JP	58.6		40.6N	141.0E	0700	99	E	25	
7005005 SS5 JP	52.1		40.6N	141.2E	0300	99	E	25	
7005006 SS6 JP	42.7		40.3N	141.2E	0300	99	E	25	
7005007 SS7 JP	39.3		40.3N	141.5E	0100	99	D	25	
7005008 SS8 JP	33.1		40.3N	141.5E	0100	99	D	25	
7006001 01JP	61.5	2798.	35.2N	138.7E	1200	100	L	25	70X
7006002 02JP	35.0	1424.	35.2N	138.7E	1200	100	L	25	70X
7006003 03JP	29.2	1733.	35.2N	138.7E	1200	100	L	25	70X
7006004 04JP	21.4	1669.	35.2N	138.7E	1150	100	L	25	70X
7006005 05JP	13.6	737.	35.2N	138.7E	1300	100	L	22	040
7006006 06JP	22.9	1265.	35.2N	138.7E	1300	100	L	22	040
7006007 07JP	21.8	1499.	35.2N	138.7E	1570	100	L	22	040
7006008 08JP	28.1	1877.	35.2N	138.7E	1440	100	L	22	040
7006009 09JP	14.7	1208.	35.2N	138.7E	1400	100	L	22	040
7006010 10JP	20.5	1308.	35.2N	138.7E	1380	100	L	22	040
7006011 11JP	21.4	867.	35.2N	138.7E	1200	100	L	22	040
7006012 12JP	9.1	302.	36.4N	140.0E	0470	100	K	22	300
7006013 13JP	11.5	453.	36.4N	140.0E	470.	100	K	22	300

Table A (continued)

SOIL DATA OF PROFILES FROM PACIFIC ISLANDS (CONT.)

PROFILE NUMBER	CARBON		LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2	G/M**2			M		A	B	C
7006014	14JP	14.2	487.	36.4N	140.0E	0400	100	K 22	300
7006015	15JP	7.7	518.	36.4N	140.0E	0300	100	K 22	300
7006016	16JP	22.1	1732.	36.4N	140.0E	0260	100	K 22	300
7006017	17JP	0.0		36.4N	140.0E	200.	100	K 22	300
7006018	18JP	0.0		40.1N	140.2E	0260	100	K 22	50X
7006019	19JP	15.1	975.	40.1N	140.2E	0260	100	K 22	50X
7006020	20JP	25.9	1715.	40.1N	140.2E	0230	100	K 22	50X
7006021	21JP	14.6	1088.	40.1N	140.2E	0220	100	K 22	50X
7006022	22JP	16.7	1264.	40.1N	140.2E	0300	100	K 22	50X
7006023	23JP	36.2	2419.	36.4N	138.5E	1000	100	E 22	
7006024	24JP	25.5	1713.	36.4N	138.5E	1000	100	E 22	
7006025	25JP	32.0	2386.	36.4N	138.5E	1150	100	E 22	
7006026	26JP	16.4	937.	36.4N	138.5E	1300	100	E 22	
7006027	27JP	34.6	2565.	36.4N	138.5E	1600	100	E 22	
7006028	28JP	21.0	1088.	36.4N	138.5E	1300	100	E 22	
7006029	29JP	30.3	2153.	36.4N	138.5E	1700	100	E 22	
7006030	30JP	19.1	1380.	36.4N	138.5E	1000	100	E 22	
7006031	31JP	9.7	639.	36.4N	138.5E	1300	100	E 22	
7006032	32JP	12.5	657.	36.4N	138.5E	1000	100	E 22	
7006033	33JP	6.4	362.	36.4N	138.5E	1100	100	E 22	
7006034	34JP	11.7	1000.	36.7N	139.0E	0640	100	E 25	
7006035	35JP	11.7	881.	36.7N	139.0E	0640	100	E 22	
7006036	36JP	13.1	859.	38.3N	140.0E	0280	100	E 25	
7006037	37JP	23.2	1476.	38.3N	140.0E	0280	100	E 25	
7006038	38JP	15.6	1415.	38.3N	140.0E	0250	100	E 25	
7006039	39JP	20.5	986.	36.4N	140.0E	0240	100	K 40	
7006040	40JP	21.5	1456.	36.4N	140.0E	0240	100	K 40	
7007001	41JP	13.4	788.	35.3N	137.4E	0750	101	F 22	
7007002	42JP	16.1	2108.	35.3N	137.4E	0810	101	F 22	
7007003	43JP	18.0	1223.	35.3N	137.4E	0800	101	F 22	
7007004	44JP	12.4	857.	35.3N	137.4E	0940	101	F 22	
7007005	45JP	14.1	867.	35.3N	137.4E	0950	101	F 22	
7007006	46JP	19.9	1186.	35.3N	137.4E	0950	101	F 22	
7007007	47JP	13.6	1112.	35.3N	137.4E	0950	101	F 22	
7007008	48JP	15.4	1105.	35.3N	137.4E	0950	101	F 22	
7007009	49JP	18.4	1360.	35.3N	137.4E	0980	101	F 22	
7007010	50JP	9.1	573.	35.3N	137.4E	0900	101	F 22	
7007011	51JP	14.2	1364.	35.3N	137.4E	0800	101	F 22	
7007012	52JP	15.3	846.	35.3N	137.4E	0820	101	F 22	
7007013	53JP	20.8	1757.	33.5N	130.6E	0520	101	L 22	
7007014	54JP	19.6	1622.	33.5N	130.6E	0550	101	L 22	
7007015	55JP	23.9	1920.	33.5N	130.6E	0560	101	L 22	
7007016	56JP	21.2	1183.	33.5N	130.6E	0650	101	L 22	
7007017	57JP	16.5	1402.	33.5N	130.6E	0400	101	L 22	
7007018	58JP	15.0	1062.	33.5N	130.6E	0690	101	L 22	
7007019	59JP	34.7	2316.	33.5N	130.6E	0700	101	L 22	
7007020	60JP	22.2	1529.	33.5N	130.6E	0380	101	L 22	
7007021	61JP	18.7	1646.	33.5N	130.6E	0320	101	L 22	
7007022	62JP	18.9	1498.	33.5N	130.6E	0360	101	L 22	
7007023	63JP	44.6	4228.	33.5N	130.6E	0380	101	L 22	

Table A (continued)

SOIL DATA OF PROFILES FROM PACIFIC ISLANDS (CONT.)

PROFILE NUMBER	CARBON		NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2		G/M**2					A	B	C
7007024 64JP	16.5		1313.	33.5N	130.6E	0380	101	L	22	
7007025 65JP	22.5		1983.	33.5N	130.6E	0320	101	L	22	

Table A (continued)

SOIL DATA OF PROFILES FROM INDONESIA

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
8001001 01ML	6.6	1374.	5.8N	102.5E	0015	36		36	
8001002 02ML	11.9	1331.	4.0N	101.9E	0080	36	\$	26	
8001003 03ML	7.4	887.	4.0N	103.4E	0050	36	\$	26	
8001004 04ML	14.8	1537.	1.8N	103.1E	0050	36		36	
8001005 05ML	10.9		2.1N	102.5E	0010	36	\$	26	
8001006 07ML	8.5	857.	5.2N	103.2E	0200	36	\$	29	
8001007 08ML	6.4		3.7N	102.9E	0300	36	\$	26	
8001008 09ML	11.9	896.	2.8N	101.4E	0001	36	\$	29	
8001009 10ML	9.7	1313.	4.0N	102.2E	0080	36	\$	29	
8001010 11ML	7.6	1100.	5.1N	103.0E	0020	36		29	
8001011 12ML	4.0	589.	5.1N	100.9E	0015	36	\$	26	
8001012 13ML	13.4	2192.	6.0N	102.3E	0010	36		36	
8001013 14ML	4.7	581.	3.9N	102.3E	0100	36	\$	26	
8001014 15ML	11.8	1688.	4.9N	103.2E	0100	36	\$	29	
8001015 16ML	8.2	1059.	5.2N	101.0E	0100	36	\$	26	
8001016 17ML	6.7	1014.	4.9N	103.2E	0100	36	\$	26	
8001017 18ML	7.3	876.	2.1N	103.0E	0100	36	\$	29	
8001018 19ML	10.9	1116.	4.0N	100.9E	0005	36	\$	29	
8001019 20ML	12.3	889.	3.9N	102.4E	0100	36	\$	26	
8001020 21ML	7.9	1223.	3.4N	102.6E	0100	36	\$	26	
8001021 22ML	34.7	2061.	5.1N	100.4E	0000	36		45	
8001022 23ML	6.4	1176.	3.8N	103.3E	0030	36	\$	29	
8001023 24ML	7.3	720.	1.9N	103.1E	0050	36	\$	26	
8001024 25ML	5.6	559.	3.1N	102.3E	0300	36	\$	26	
8001025 26ML	8.3	992.	5.8N	102.1E	0300	36	\$	26	
8001026 27ML	12.3	1757.	3.5N	102.2E	0100	36	\$	26	
8001027 28ML	5.4	1156.	5.8N	102.5E	0010	36		36	
8001028 29ML	81.5	2662.	1.9N	103.0E	0010	36	\$	26	
8001029 30ML	33.2	2001.	5.9N	102.4E	0010	36		36	
8001030 31ML	18.1	2316.	5.8N	102.5E	0010	36		36	
8001031 32ML	4.5	940.	5.1N	103.0E	0010	36		29	
8001032 33ML	7.3	551.	1.7N	103.9E	0010	36	\$	26	
8001033 34ML	10.2	847.	3.9N	101.5E	0100	36	\$	26	
8001034 35ML	22.6	2004.	1.9N	103.0E	0001	36	\$	29	
8001035 36ML	6.3	524.	3.2N	103.4E	0020	36	\$	26	
8001036 37ML	13.0	1850.	3.1N	101.7E	0070	36	\$	26	
8001037 38ML	6.4	694.	1.9N	103.4E	0100	36	\$	26	
8001038 39ML	70.6		2.8N	101.5E	0005	36	\$	26	
8001039 40ML	11.8	1442.	3.5N	102.5E	0060	36	\$	26	
8001040 41ML	8.8	980.	5.2N	100.5E	0002	36	\$	26	
8001041 42ML	10.5	1054.	1.6N	103.6E	0100	36	\$	26	
8001042 43ML	5.7	662.	5.0N	100.8E	0200	36	\$	26	
8001043 44ML	7.1	948.	4.2N	100.7E	0012	36	\$	26	
8001044 45ML	8.3	937.	4.3N	100.8E	0010	36		29	
8001045 46ML	9.5	1029.	3.9N	101.8E	0250	36	\$	26	
8001046 47ML	6.3	365.	2.8N	101.9E	0200	36	\$	29	
8001047 48ML	6.7	1488.	5.8N	102.5E	0005	36		36	
8001048 49ML	7.2	979.	5.1N	103.0E	0010	36		29	
8001049 50ML	9.9	1090.	1.7N	103.9E	0050	36	\$	26	
8002001 AP CY	3.8	431.	8.2N	79.9E	0030	125	?		7XX

Table A (continued)

SOIL DATA OF PROFILES FROM INDONESIA				(CONT.)						
PROFILE NUMBER		CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C		
8002002	AL1 CY	4.0	357.	8.2N	79.9E	0030	125	?		7XX
8002003	AL2 CY	3.4	283.	8.2N	79.9E	0030	125	?		7XX
8002004	AL3 CY	3.5	357.	8.2N	79.9E	0030	125	?		7XX
8002005	AL4 CY	4.2	410.	8.2N	79.9E	0030	125	?		7XX
8002006	AL5 CY	4.2	357.	8.2N	79.9E	0030	125	?		7XX
8002007	BP CY	4.3	426.	8.2N	79.9E	0030	125	?		7XX
8002008	BL1 CY	5.1	462.	8.2N	79.9E	0030	125	?		7XX
8002009	BL2 CY	4.0	492.	8.2N	79.9E	0030	125	?		7XX
8002010	BL3 CY	5.4	589.	8.2N	79.9E	0030	125	?		7XX
8002011	BL4 CY	3.7	463.	8.2N	79.9E	0030	125	?		7XX
8002012	BL5 CY	5.2	492.	8.2N	79.9E	0030	125	?		7XX
8002013	CP CY	6.2	641.	8.2N	79.9E	0030	125	?		7XX
8002014	CL1 CY	6.1	583.	8.2N	79.9E	0030	125	?		7XX
8002015	CL2 CY	6.1	538.	8.2N	79.9E	0030	125	?		7XX
8002016	CL3 CY	4.9	496.	8.2N	79.9E	0030	125	?		7XX
8002017	CL4 CY	5.0	496.	8.2N	79.9E	0030	125	?		7XX
8002018	CL5 CY	4.7	445.	8.2N	79.9E	0030	125	?		7XX
8002019	AP SK	11.3	1071.	1.5N	110.4E	0040	125	?		513
8002020	AL1 SK	13.2	1278.	1.5N	110.4E	0040	125	?		513
8002021	AL2 SK	14.1	1320.	1.5N	110.4E	0040	125	?		513
8002022	AL3 SK	13.3	1308.	1.5N	110.4E	0040	125	?		513
8002023	AL4 SK	12.9	1287.	1.5N	110.4E	0040	125	?		513
8002024	AL5 SK	14.3	1350.	1.5N	110.4E	0040	125	?		513
8002025	BP SK	13.1	1221.	1.5N	110.4E	0040	125	?		513
8002026	BL1 SK	12.8	1212.	1.5N	110.4E	0040	125	?		513
8002027	BL2 SK	16.4	1507.	1.5N	110.4E	0040	125	?		513
8002028	BL3 SK	16.4	1488.	1.5N	110.4E	0040	125	?		513
8002029	BL4 SK	14.3	1381.	1.5N	110.4E	0040	125	?		513
8002030	BL5 SK	15.7	1561.	1.5N	110.4E	0040	125	?		513
8002031	CP SK	12.6	1145.	1.5N	110.4E	0040	125	?		513
8002032	CL1 SK	13.1	1481.	1.5N	110.4E	0040	125	?		513
8002033	CL2 SK	11.9	1248.	1.5N	110.4E	0040	125	?		513
8002034	CL3 SK	11.7	1295.	1.5N	110.4E	0040	125	?		513
8002035	CL4 SK	12.7	1381.	1.5N	110.4E	0040	125	?		513
8002036	CL5 SK	14.1	1513.	1.5N	110.4E	0040	125	?		513
8003001	T01 ML	9.3	1137.	5.2N	103.1E	030	127	?		7XX
8003002	T02 ML	15.1	1546.	5.2N	103.1E	030	127	?		7XX
8003003	T03 ML	6.3	1063.	5.2N	103.1E	030	127	?		7XX
8003004	T04 ML	13.9	1557.	5.2N	103.1E	030	127	?		7XX
8003005	T05 ML	16.6	1584.	5.2N	103.1E	030	127	?		7XX
8003006	T06 ML	9.7	1111.	5.2N	103.1E	030	127	?		7XX
8003007	T07 ML	10.1	1234.	5.2N	103.1E	030	127	?		7XX
8003008	T09 ML	12.3	1257.	5.2N	103.1E	030	127	?		7XX
8003009	T11 ML	9.2	994.	5.2N	103.1E	030	127	?		7XX
8003010	T12 ML	7.1	813.	5.2N	103.1E	030	127	?		7XX
8003011	T13 ML	9.3	1398.	5.2N	103.1E	030	127	?		7XX
8003012	T14 ML	10.6	1316.	5.2N	103.1E	030	127	?		7XX
8003013	T15 ML	15.9	1729.	5.2N	103.1E	030	127	?		7XX
8003014	T16 ML	6.1	941.	5.2N	103.1E	030	127	?		7XX
8003015	T17 ML	5.3	683.	5.2N	103.1E	030	127	?		7XX

Table A (continued)

SOIL DATA OF PROFILES FROM INDONESIA

(CONT.)

PROFILE NUMBER	CARBON		NITROGEN	LATITUDE	LONGITUDE	ELEV.	SOURCE	CATEGORY		
	KG/M**2							A	B	C
8003016 T19 ML	6.1	723.		5.2N	103.1E	030	127	?		7XX
8003017 T20 ML	7.1	1195.		5.2N	103.1E	030	127	?		7XX
8003018 T21 ML	10.0	1221.		5.2N	103.1E	030	127	?		7XX
8003019 T23 ML	11.5	1191.		5.2N	103.1E	030	127	?		7XX
8003020 T26 ML	9.4	1364.		5.2N	103.1E	030	127	?		7XX
8003021 T27 ML	14.7	1375.		5.2N	103.1E	030	127	?		7XX
8003022 T28 ML	12.4	1311.		5.2N	103.1E	030	127	?		7XX
8003023 T29 ML	7.6	692.		5.2N	103.1E	030	127	?		7XX
8003024 T30 ML	10.2	1160.		5.2N	103.1E	030	127	?		7XX
8003025 T31 ML	7.1	1282.		5.2N	103.1E	030	127	?		7XX
8003026 T32 ML	10.5	1339.		5.2N	103.1E	030	127	?		7XX
8003027 T33 ML	10.3	1886.		5.2N	103.1E	030	127	?		7XX
8003028 T34 ML	10.1	1599.		5.2N	103.1E	030	127	?		7XX

Table A (continued)

SOIL DATA OF PROFILES FROM MISCELLANEOUS

PROFILE NUMBER	CARBON KG/M**2	NITROGEN G/M**2	LATITUDE	LONGITUDE	ELEV. M	SOURCE	CATEGORY A B C
9001001 Y1 MW	3.8	333.	14.0S	34.0E	1500	16	Y 56 64X
9001002 Y2 ML	6.2	410.	4.0N	102.0E	100	16	# 26 50X
9001003 Y3 ZM	2.6	168.	14.0S	29.0E	1200	16	Y 43 64X
9001004 Y4 BZ	10.9	1365.	23.0S	50.0W	580	16	Z 26 40X
9001005 Y5 NG	4.2	263.	9.0N	9.0E	400	16	Y 31 40X
9001006 Y6 II	4.6		28.0N	77.0E	250	16	? 31 7XX

Table B. Key to Holdridge life zone codes

Life zone	Code	Life zone	Code
Dry tundra	1	Warm temperate wet forest	L
Moist tundra	2	Warm temperate rain forest	M
Wet tundra	3	Subtropical desert	N
Rain tundra	4	Subtropical desert bush	O
Boreal desert	5	Subtropical thorn woodland	P
Boreal dry bush	6	Subtropical dry forest	Q
Boreal moist forest	7	Subtropical moist forest	R
Boreal wet forest	8	Subtropical wet forest	S
Boreal rain forest	9	Subtropical rain forest	T
Cool temperate desert	A	Tropical desert	U
Cool temperate desert bush	B	Tropical desert bush	W
Cool temperate steppe	C	Tropical thorn woodland	W
Cool temperate moist forest	D	Tropical very dry forest	Y
Cool temperate wet forest	E	Tropical dry forest	Z
Cool temperate rain forest	F	Tropical moist forest	\$
Warm temperate desert	G	Tropical wet forest	#
Warm temperate desert bush	H	Tropical Rain Forest	*
Warm temperate thorn steppe	I	Disturbed/agricultural	Blank
Warm temperate dry forest	J	Unclassified	?
Warm temperate moist forest	K		

Table C. Key to ecosystem codes

Ecosystem	Code	Ecosystem	Code
Main taiga	20	Marsh, swampwoods and littoral	45
Main taiga	21	Mediterranean scrub/wood/savanna	46
Cool conifer forest	22	Sparse woodland or shrubland	47
Cool hardwoods-conifer mixed woods	23	Warm semiarid woodlands	48
Warm broad-leaved conifer mixed woods	24	Low scrub	49
Cool deciduous forest	25	Sand/scrub/herbs or bare desert	50
Warm broad-leaved forest	26	Hot subdesert/desert shrubland	51
Warm conifer forest	27	Cool/cold semidesert/desert shrubland	52
Tropical/subtropical broad-leaved humid forest	29	Tundra	53
Cool farms or grass/scrub	30	Cool farms, grass/scrub with woods	55
Warm farm or grass/scrub	31	Warm forest/farm complex	56
Seasonally dry tropical woodland	32	Cool forest/farm complex	57
Paddylands and associated woods	36	Warm farm, grass, or scrub with woods	58
Cool grassland	40	Tropical thorn/succulent woods	59
Miscellaneous grassland	41	Midcontinental southern taiga	60
Cold rangelands	42	Northern or maritime taiga/subalpine	62
Tropical savanna and woodland	43	Wooded tundra	63
Bogs and bog woods	44	Heath, moorland	64

Table D. Coding for parent rocks

Code	Rock	Code	Rock
0XX	ACID INTRUSIVE	6XX	METAMORPHIC ROCKS
00X	Granites	60X	Hornfelses
01X	Syenites	61X	Slates and phyllites
02X	Nepheline syenites	62X	Schists
03X	Monzonites	63X	Amphibolites
04X	Diorites	64X	Gneisses
05X	Quartz diorites	65X	Granulites
1XX	BASIC INTRUSIVE	66X	Cataclastic, mylonites, and phyllonites
10X	Gabbros	67X	Marble
11X	Alkali gabbros	68X	Quartzite
12X	Basic feldspathoids	69X	Autometamorphic
2XX	ULTRABASIC	7XX	SEDIMENTARY ROCKS (weakly consolidated—terraces, river sediments, dunes, etc.)
20X	Peridotites	70X	Sandstone materials
21X	Serpentinite	71X	Argillaceous materials
3XX	ACID EXTRUSIVE	72X	Calcareous materials
30X	Rhyolites	73X	Siliceous materials
31X	Trachytes	74X	
32X	Phonolites	75X	
33X	Latites	76X	
34X	Dacites	8XX	ORGANIC MATERIAL
35X	Andesites	0XX	ACID INTRUSIVE
4XX	BASIC EXTRUSIVE	00X	Granite
40X	Basalt	000	Alaskite
41X	Tephrites	001	Graphic granite
42X	Basaltic nephelinites	002	Alkali granite
43X	Limburgites	003	Charnockite
5XX	SEDIMENTARY ROCKS (consolidated)	004	Luxullianite
50X	Sandstones	005	Granite porphyry
51X	Argillaceous rocks	006	Aplite
52X	Calcareous rocks	007	Granite pegmatite
53X	Siliceous rocks	008	
54X	Iron rich sediments	009	
55X	Phosphatic sediments		
56X	Anhydrites and gypsum		
57X	Conglomerate (consolidated clastic)		
58X	Mixed conglomerate (consolidated)		
59X	Unconsolidated materials		

Table D (continued)

Code	Rock	Code	Rock
01X	<i>Syenite</i>	05X	<i>Quartz diorites</i>
010	Quartz syenite	050	Quartz diorite (tonalite)
011	Alkali syenite	051	Quartz diorite porphyry
012	Pulaskite	052	Quartz diorite aplite
013	Nordmarkite	053	Quartz diorite pegmatite
014	Larvikite	054	
015	Shonkinite	055	
016	Syenite porphyry	056	
017	Syenite aplite	057	
018	Syenite pegmatite	058	
019		059	
02X	<i>Nepheline Syenite</i>	1XX	BASIC INTRUSIVE
020	Leucite syenite	10X	<i>Gabbros</i>
021	Sodalite syenite	100	Gabbro-clinopyroxene
022	Foyaite	101	Norite
023	Malignite	102	Olivine gabbro
024	Ditroite	103	Troctolite
025	Nepheline syenite porphyry	104	Anorthite
026	Nepheline aplite	105	Quartz gabbro
027	Nepheline pegmatite	106	Gabbro porphyry
028		107	Gabbro aplite
029		108	Gabbro pegmatite
03X	<i>Monzonites</i>	109	Diabase
030	Quartz monzonite	11X	<i>Alkali gabbros</i>
031	Quartz monzonite porphyry	110	Theralite
032	Quartz monzonite aplite	111	Essexite
033	Quartz monzonite pegmatite	112	Teschenite
034	Monzonite	113	Olivine theralite
035	Monzonite porphyry	114	Theralite porphyry
036	Monzonite aplite	115	
037	Monzonite pegmatite	116	
038	Nepheline monzonite	117	
-39	Nepheline monzonite porphyry	118	
04X	<i>Diorites</i>	12X	<i>Basic feldspathoids</i>
040	Grandiorite	120	Missourite
041	Grandiorite porphyry	121	Ijolite
042	Grandiorite aplite	122	Fergusite
043	Grandiorite pegmatite	123	Meliliteia
044	Diorite	124	
045	Diorite porphyry	125	
046	Diorite aplite	126	
047	Diorite pegmatite	127	
048	Trondhjemite	128	
049		129	

Table D (continued)

Code	Rock	Code	Rock
2XX	ULTRABASIC	32X	<i>Phonolites</i>
20X	<i>Peridotites</i>	320	Phonolite
200	Peridotite-pyroxene and olivine	321	Phonolite porphyry
201	Harzburgite	322	Leucite phonolite
202	Picrite	323	Tinguaite
203	Dunite	324	Wyomingite
204	Pyroxenite	325	Generalized volcanic
205	Hornblendite	326	Pumice
206	Peridotite porphyry	327	
207	Kimberlite	328	
		329	
21X	<i>Serpentinite</i>	33X	<i>Lattites</i>
210	Serpentine (pure mineral)	330	Quartz latite
211	Serpentine schist	331	Quartz latite porphyry
212	Serpentine talc	332	Latite
213		333	Latite porphyry
214		334	Nepheline latite
215		335	Nepheline latite porphyry
216		336	
217		337	
218		338	
219		339	
3XX	ACID EXTRUSIVE	34X	<i>Dacites</i>
30X	<i>Rhyolitesn</i>	340	Dacite
300	Rhyolite	341	Dacite porphyry
301	Rhyolite porphyry	342	Dacite obsidian
302	Rhyolite obsidian	343	Dacite pitchstone
303	Rhyolite pitchstone	344	Dacite vitrophyre
304	Rhyolite pumice	345	Dacite perlite
305	Rhyolite perlite	346	Dacite pumice
306	Rhyolite scoria	347	Dacite scoria
307	Rhyolite vitrophyre	348	Dacite tuff
308	Rhyolite tuff	349	Dacite tuff-breccia
309	Tuff-breccia	35X	<i>Andesites</i>
31X	<i>Trachytes</i>	350	Andesite
310	Trachyte	351	Andesite porphyry
311	Trachyte porphyry	352	Andesite obsidian
312	Trachyte obsidian	353	Andesite pitchstone
313	Trachyte pitchstone	354	Andesite vitrophyre
314	Trachyte pumice	355	Andesite perlite
315	Trachyte perlite	356	Andesite pumice
316	Trachyte scoria	357	Andesite scoria
317	Trachyte vitrophyre	358	Andesite tuff
318	Trachyte tuff	359	Andesite tuff-breccia
319	Trachyte tuff-breccia		

Table D (continued)

Code	Rock	Code	Rock
4XX	BASIC EXTRUSIVE	5XX	SEDIMENTARY ROCKS (consolidated)
40X	<i>Basalts</i>	50X	Sandstone
400	Basalt	500	Wackes and graywackes
401	Basalt porphyry	501	Lithic wackes and graywackes
402	Olivine basalt	502	Lithic arenite
403	Analcite basalt	503	Arkosic sandstone
404	Quartz basalt	504	Feldspathic sandstone
405	Oceanite	505	Quartz arenites
406	Basalt scoria	506	
407	Basalt glass (tachylite)	507	
408	Basalt tuff	508	
409	Basalt tuff-breccia	509	
41X	<i>Tephrites</i>	51X	<i>Argillaceous rocks</i>
410	Tephrite	510	Shale
411	Tephrite porphyry	511	Silty shale
412	Leucite tephrite	512	Clay shale
413	Basanite	513	Black pyritic shale
414	Leucite basanite	514	Red shale
415		515	Glauconitic shale
416		516	Siltstone
417		517	Claystone
418		518	Clay minerals
419		519	
42X	<i>Basaltic nephelinites</i>	52X	<i>Calcareous rock</i>
420	Nephelinite	520	Limestone
421	Leucitite	521	Organic limestone
422	Nepheline basalts	522	Clastic limestone
423	Leucite basalt	523	Aphaitic limestone
424	Melilitite	524	Dolomitic limestone
425		525	Dolomite
426		526	Autigenic silicates in organic limestone
427		527	
428		528	
429		529	
43X	<i>Limburgites</i>	53X	<i>Siliceous sediments</i>
430	Limburgite	530	Siliceous shale
431	Limburgite porphyry	531	Opal and chacedony
432		532	Chert
433		533	Porcellanite
434		534	Diatomite
435		535	Spiculites
436		536	
437		537	
438		538	
439		539	

Table D (continued)

Code	Rock	Code	Rock
54X	<i>Iron-rich sediments</i>	58X	<i>Mixed conglomerates</i> (consolidated)
540	Ironstones	580	Mixed pebble conglomerate
541	Glauconitic rocks	581	Mixed cobble conglomerate
542	Sideritic and chamositic ironstones	582	Argillaceous mixed conglomerate
543	Hematitic ironstones	583	Glacial till
544	Pyritic strata	584	Tillite (indurated till)
545		585	Fanglomerate
546		586	Siliceous mixed conglomerate
547		587	Clacareous mixed conglomerate
548		588	Ferruginous (limonite or hematitic) mixed conglomerate
549		589	Carbonaceous mixed conglomerate
55X	<i>Phosphatic sediments</i> (phosphorites)	59X	<i>Unconsolidated materials</i> (recent gravels, cobbles, sand, and silt; usually river bottoms, dunes, etc.)
550	Collophane	590	Gravels
551		591	Cobbles
552		592	Gravels and cobbles
553		593	Gravels, cobbles, and sand mixtures
554		594	Gravels, cobbles, sand, and silt mixtures
555		595	Sand
556		596	Sand and silt
557		597	Sand, silt, and clay
558		598	Saliceous derived alluvial silt
559		599	
56X	<i>Andydrite and gypsum</i>	6XX	METAMORPHIC ROCK
560		60X	<i>Hornfelses</i>
561		600	Pelitic hornfelses
562		601	Quartzo-feldspathic hornfelses
563		602	Contact marbles
564		603	Calc-silicate marbles and sparns
565		604	Basic hornfelses
566		605	Magnesium hornfelses
567		606	
568		607	
569		608	
		609	
57X	<i>Homogeneous conglomerates</i> (consolidated clastics)		
570	Conglomerate		
571	Quartz pebble conglomerate		
572	Chert cobble conglomerate		
573	Argillaceous conglomerate		
574	Siliceous conglomerate		
575	Calcareous conglomerate		
576	Ferruginous (limonite or hematitic) conglomerate		
577	Carbonaceous conglomerate		
578	Phosphatic conglomerate		
579			

Table D (continued)

Code	Rock	Code	Rock
61X	<i>Slates and phyllites</i>	65X	<i>Granulites and eclogites</i>
610	Slate	650	Pyroxene granulite
611	Spotted slate	651	Olivinite
612	Phyllite	652	Eclogite
613		653	
614		654	
615		655	
616		656	
617		657	
618		658	
619		659	
62X	<i>Schists</i>	66X	<i>Cataclasites, mylonites, and phyllonites</i>
620	Mica schist and quartz-albite schist	660	Mylonites
621	Calc-schist (low grade)	661	Cataclasites
622	Greenschist	662	Phyllonites
623	Magnesian schist	663	Fault gouge; shear zone materials
624	Glaucophane schist	664	
625	Pelitic schist	665	
626	Quartzo-feldspathic schist	666	
627	Calc-schists (high grade)	667	
628	Foliated marble	668	
629	Chlorite schist	669	
63X	<i>Amphibolites (hornflende schist)</i>	67X	<i>Marbles</i>
630	Epidote amphibolite	670	Brucite
631	Garnet-pyroxene amphibolite	671	
632		672	
633		673	
634		674	
635		675	
636		676	
637		677	
638		678	
639		679	
64X	<i>Gneisses</i>	68X	<i>Quartzites</i>
640	Granite gneiss	680	Orthoquartzite
641	Mica gneiss	681	
642		682	
643		683	
644		684	
645		685	
646		686	
647		687	
648		688	
649		689	

Table D (continued)

Code	Rock	Code	Rock
69X	<i>Autometamorphism</i> (list of processes forming secondary minerals by hydrothermal alteration and other metamorphic processes)	73X	<i>Siliceous material</i>
690	Propylization	730	
691	Uralitization	731	
692	Chlorization	732	
693	Silification	733	
694	Saussurization	734	
695	Kaolinization of granites	735	
696	Greenstone	74X	<i>Conglomerate</i> (homogeneous)
697		740	
698		741	
699		742	
		743	
		744	
		745	
7XX	SEDIMENTARY ROCKS (weakly consolidated—terraces, dunes, etc.)	75X	<i>Conglomerate</i> (mixed)
70X	<i>Sandstone materials</i>	750	
701		751	
702		752	
703		753	
704		754	
705		755	
71X	<i>Argillaceous material</i>	76X	<i>Air-deposited sediment</i>
710		761	Loess
711		762	Volcanic ash
712		763	Volcanic ash over loess
713		764	Micaceous loess
714		765	Calcareous loess
715		766	Sand dunes
72X	<i>Calcareous material</i>		
720	Marl		
721			
722			
723			
724			
725			

**Table E. Reference List
(with microfiche key)**

1. Falesi, I. T. 1972. Solos da rodovia transamazonica (soils of the transamazon highway). Bol. Tec. do Inst. Pesquisa Agropecuaria do Norte, Belem, Brasil. No. 55. 199 pp.
2. Sheehy, T. J., and H. B. Green. 1969. Land resources map of northeastern Tanzania. (exploratory monograph). 95 pp.
Microfiche: 30.43
3. Soil Conservation Service. 1966. Soil survey laboratory data and descriptions for some soils of Montana. USDA Soil Conservation Service, Soil Survey Laboratory, Lincoln, Nebraska. Soil Survey Investigations Report 7. 159 pp.
Microfiche: 19.41
4. Soil Conservation Service. 1966. Soil survey laboratory data and descriptions for some soils of Wyoming. USDA Soil Conservation Service, Soil Survey Laboratory, Mandan, North Dakota Soil Survey Investigations Report 8. 97 pp.
Microfiche: 19.41
5. Soil Conservation Service. 1967. Soil survey laboratory data and descriptions for some soils of Colorado. USDA Soil Conservation Service, Soil Survey Laboratory, Lincoln, Nebraska. Soil Survey Investigations Report 10. 249 pp.
Microfiche: 19.21
6. Soil Conservation Service. 1970. Soil survey laboratory data and descriptions for some soils of Nevada. USDA Soil Conservation Service, Soil Survey Laboratory, Riverside, California. Soil Survey Investigations Report 23. 219 pp.
Microfiche: 19.411
7. Soil Conservation Service. 1973. Soil survey laboratory data and descriptions for some soils of California. USDA Soil Conservation Service, Soil Survey Laboratory, Riverside, California. Soil Survey Investigations Report 24. 637 pp.
Microfiche: 19.111
8. Soil Survey Laboratory. n.d. Riverside Soil Survey laboratory report for soils from Alaska. USDA Soil Conservation Service, Soil Survey Laboratory, Riverside, California. 147 pp.
Microfiche: 30.20
9. Southern Regional Project S-14. 1959. Certain properties of selected southeastern United States soils and mineralogical procedures for their study. Coop. Regional Research Project S-14, Southern Regional Bulletin 61. Virginia Agricultural Experiment Station, Blacksburg, Virginia. 146 pp.
Microfiche: 19.51
10. Stangenberger, A. G. 1979. A simulation of nutrient cycling in red fir and Douglas-fir forests. Dissertation (Ph.D. in Wildland Resource Science), University of California, Berkeley. 192 pp.
Microfiche: 11.1
11. Stangenberger, A. G. 1968. The distribution of total nitrogen in some Monterey pine forests and adjacent grasslands. Thesis (M.S. in Forestry), University of California, Berkeley. 110 pp.
12. Soil Survey Laboratory. 1952. Field and laboratory data on some podzol, brown podzolic, brown forest, and gray wooded soils in northern United States and southern Canada. USDA Soil Survey Laboratory, Beltsville, Maryland, Memorandum 1. 191 pp.
Microfiche: 19.61

13. Gorshenin, K. P. 1955. The soils of southern Siberia (from the Urals to the Baikal). Israel Program for Scientific Translations, Jerusalem. 758 pp.
Microfiche: 30.15, 30.151
14. Lunt, H. A. 1948. The forest soils of Connecticut. Connecticut Agricultural Experiment Station, New Haven, Connecticut, Bull. 523. 93 pp.
Microfiche: 30.2
15. Stevens, Peter R. 1970. Forest soils in Laos. Australia Department of External Affairs, Canberra. 69 pp.
Microfiche: 30.62
16. Young, A. 1976. Tropical soils and soil survey. Cambridge University Press, London. 467 pp.
Microfiche: 30.40
17. Falesi, I. C., Rodrigues da Silva, B. N., and G. de Assis Guimaraes. 1969. Os solos da area Manaus-Itacoatiara. Inst. de Pesquisas e Experimentacao Agropecuarias do Norte (IPEAN), Belem, Brazil. Estudos e Ensaio no. 1. 116 pp.
Microfiche: 17.1
18. Viera, L. S. 1962. As caatingas do Rio Negro. Inst. Agron. do Norte, Belem, Para, Brasil. Boletim Tecnico 42, pp. 7-42.
Microfiche: 17.1
19. Chayanov, S. K. 1959. Fifty years' experience in the semidesert zone. U.S. Department of Communication, Clearinghouse for Federal Scientific and Technical Information, Translation 65-50125. 18 pp.
Microfiche: 30.3
20. Zavalishin, A. A. 1954. The main soil subtypes of the forest zone of the European USSR. U.S. Clearinghouse for federal Scientific and Technical Information, Translation TT 65-50066. 63 pp.
Microfiche: 30.3
21. Eschner, A. R., B. O. Jones, and R. C. Moyle. 1957. Physical properties of 134 soils in six northeastern states. USDA Forest Service Northeastern Forestry Experiment Station, Upper Darby, Pennsylvania, Station Paper 89. 21 pp.
Microfiche: 30.22
22. Thames, J. L., and E. I. Swensen. 1956. Properties of 160 soils of four North Central states. USDA Forest Service Lake States Forest Experiment Station, St. Paul, Minneapolis. Station Paper 38. 15 pp.
Microfiche: 30.21
23. Lunt, H. A. 1932. Profile characteristics of New England forest soils. Connecticut Agricultural Experiment Station, New Haven, Connecticut, Bull. 342. pp. 743-836.
Microfiche: 30.26
24. Viera, L. S., Viegas de Carvalho e Oliveira, N., and T. X. Bastos. 1971. Os solos do estado do Para'. Instituto do desenvolvimento economico-social do Para (IDESP), Belem, Brasil. 175 pp.
25. California Soil-Vegetation Survey. n.d. Laboratory analyses of soil samples collected during mapping. California Department of Natural Resources, Division of Forestry, Sacramento, California.
Microfiche: 20.1, 20A.1, 20B.1

26. Zinke, P. J. n.d. Projects 1762, 2595, 2937. Agricultural Experiment Station, University of California, Berkeley, California.
Microfiche: 1.1, 1.90, 2.11, 2.21, 3.1, 3.8, 3.80; 4.1, 5.1, 6.1, 7.1, 8.1, 8.70, 9.1, 10.1, 11.1, 12.1, 15.1, 23.41, 17.1, 29.6, 30.23, 30.30
27. Prescott, Samuel C. 1918. Examination of tropical soils. United Fruit Co., Research Dept., Boston, Massachusetts. 544 pp.
Microfiche: 18.1
28. Sombroek, W. G. 1966. Amazon soils: a reconnaissance of the Brazilian Amazon Region. Center for Agricultural Publications & Documentations, Wageningen, Netherlands. Verslagen van landbouwkundige onderzoeken no. 672. 292 pp.
Microfiche: 17.1
29. Texeira da Silva, A. J. 1962. Os solos da Guine Portuguesa. Inst. Invest. Cien. de Angola. Mem. e Trabalhos 3:1-397.
Microfiche: 18.1
30. Zinke, P. J., Sabhasri, S., and P. Kundstadter. 1978. Soil fertility aspects of the Lua' forest fallow system of shifting cultivation. pp. 134-159 IN Farmers in the Forest. Published by East West Center. University of Hawaii Press, Honolulu.
Microfiche: 14.1
31. Zinke, P. 1976. The Banyan Trees of Kish Island, Iran. 31 pp. Kish Island Develop. Corp., Teheran, Iran.
Microfiche: 18.5
32. Zinke, P. 1974. Effects of herbicides on soils of South Vietnam. Part B: The effects of herbicides in South Vietnam. National Academy of Sciences. Washington, D.C. 39 pp.
Microfiche: 15.1, 16.1
33. Zinke, P. 1965. Mediterranean Analogs of California Soil Vegetation Types. U.S. Army Natick Laboratory Project. IK025001A129, 227 pp. (mimeo).
Microfiche: 13.1
34. Hoyle, M. C. 1973. Nature and properties of some forest soils in the White Mountains of New Hampshire. USDA Forest Service Northeast Forest Experiment Station, Upper Darby, Pennsylvania. Research Paper NE-260, 18 pp.
Microfiche: 19.99
35. Taylor, R. E. 1956. Some properties of 144 soils from three intermountain states. U.S. Forest Service Intermountain Forest and Range Experiment Station, Ogden, Utah. Misc. Pub 7. 15 pp.
Microfiche: 19.31
36. Paramanathan, S. 1978. Register of soils of Peninsular Malaysia. Malaysia Ministry of Agriculture, Kuala Lumpur. Soils and Analytical Services Bulletin 7.
Microfiche: 30.6
37. Alexander, L. T. 1957. Podzol soil from Punta Arenas, Chile USDA Soil Conservation Service, Soil Survey Laboratory, Beltsville, Maryland. 4 pp. (mimeo).
Microfiche: 30.30
38. Wolfe, James A. 1967. Forest soil characteristics as related to vegetation and bedrock in the spruce-fir zone of the Great Smoky Mountains. Dissertation (Ph.D. in Botany), University of Tennessee, Knoxville, Tennessee. 193 pp.
Microfiche: 29.6

39. Soil Conservation Service. 1975. Preliminary data for Oregon soils. Soil Survey Laboratory, Riverside California. (Computer printout).
Microfiche: 19.81
40. Soil Survey Laboratory. 1960. Field and laboratory studies of some soils in Amador County, California. USDA Soil Conservation Service, Soil Survey Laboratory, Riverside, California. 88 pp.
Microfiche: 19.11
41. Ivanova, E. N. (ed.). 1963. Soils of eastern Siberia. Izdatel'stvo Akademii Nauk SSSR, Moscow. Translation: Israel Program for Scientific Translations, Jerusalem. 1969. 223 pp.
Microfiche: 30.1, 30.15
42. Kovalev, R. V. (ed.). 1964. Genesis of the Soils of Western Siberia. Redaktsionno-izdatel'skii otdel sibirskogo otdeleniya AN SSSR, Novosibirsk. Translation: Israel Program for Scientific Translations, Jerusalem, 1968. 173 pp.
Microfiche: 30.17
43. Tidball, Ronald R. 1965. A study of soil development on dated pumice deposits from Mount Mazama, Oregon. Thesis (Ph.D. in Soil Science), University of California, Berkeley. 235 pp.
Microfiche: 19.71
44. Dickson, Bruce A. 1952. A chronosequence of soil and vegetation on recent mud-flow deposits on the lower slopes of Mt. Shasta, California. Thesis (Ph.D. in Soil Science), University of California, Berkeley. 149 pp.
Microfiche: 19.71
45. McDonald, John B. 1959. An ecological study of Monterey pine in Monterey County, California. Thesis (M.S. in Forestry), University of California, Berkeley. 58 pp.
Microfiche: 19.71
46. Soil Conservation Service. 1974. Soil survey: Tahoe Basin Area, Calif. and Nevada. Government Printing Office, Washington, D.C. 84 pp.
Microfiche: 9.7
47. Aksornkoe, Sanit. 1971. A comparison of nitrogen contents and bulk densities in a dry evergreen forest and a dry dipterocarp forest at Sakaerat, Pakthongchai, Nakhonratchasima. Faculty of Forestry, Kasetsart University, Bangkok, Thailand. Forest Research Bulletin 15. 70 pp.
Microfiche: 15.1
48. Cavalcanti, D., and F. B. Magalhaes. 1971. Levantamento de recursos naturais nucleo colonial Pio XII. 36 pp. + map.
Microfiche: 17.1
49. da Silva, Benedito N. R., Araujo, J. V., T. E. Rodrigues, I. C. Falesi, and R. da Silva Rego. 1970. Os solos da area Cacau Pirera-Manacapuru. Inst. de Pesquisas e Experimentacao Agropecuarias do Norte (IPEAN), Belem, Para, Brasil. Serie Solos da Amazonia 2(3). 198 pp.
Microfiche: 17.1
50. Falesi, I. C., L. S. Vieira, B. N. R. da Silva, E. de Souza Cruz, and G. de Asis Guimaraes. 1967. Solos da estacao experimental de Porto Velho, T. F. de Rodonia. Inst. de Pesquisas e Experimentacao Agropecuarias do Norte (IPEAN), Belem, Para, Brasil. Serie Solos da Amazonia 1;1-99.
Microfiche: 17.1

51. Falesi, I. C. 1970. Levantamento de reconhecimento dos solos da colonia agricola Paes de Carvalho. Inst. de Pesquisas e Experimentacao Agropecuarias do Norte (IPEAN), Belim, Para, Brasil. Serie solos da Amazonia 2(2). 150 pp.
Microfiche: 17.1
52. Falesi, I. C. 1970. Solos de Monte Algre. Inst. de Pesquisas e Experimentacao Agropecuarias do Norte (IPEAN), Belem, Para, Brasil. Serie Solos da Amazonia 2(1). 127 pp.
Microfiche: 17.1
53. Falesi, I. C., W. H. Dos Santos, and L. Salgado Vieira. 1964. Os solos da colonia agricola de Tome-Azu. Inst. de Pesquisas e Experimentacao Agropecuarias do Norte (IPEAN), Belem, Para, Brasil. Boletim Tecnico 44. 93 pp.
Microfiche: 17.1
54. Falesi, I. C. 1964. Levantamento de reconhecimento detalhado dos solos da estrada de Ferro do Amapa. Inst. de Pesquisas e Experimentacao Agropecuarias do Norte (IPEAN), Belem, Para, Brasil. Boletim Tecnico 45. 53 pp.
Microfiche: 17.1
55. Rodrigues, T., I. Morikawa, S. Dos Reis Raimundo, I. Falesi, and B. N. Rodrigues da Silva. 1971. Solos do distrito agrario da Suframa. IPEAAOC, Manaus, Brasil 1(1). 99 pp.
Microfiche: 17.1
56. Rodrigues, T. E., B. N. Da Silva, J. Vicina Araujo, I. C. Falesi, V. de Melo, G. de A. Gumaraes, and E de Lopes. 1971. Solos do area de projeto de colonizacao do Alto Turu, Norte do Rio Turiacu. Inst. de Pesquisas e Experimentacao Agropecuarias do Norte (IPEAN), Belem, Para, Brasil. Serie Solos da Amazonia 3(1).
Microfiche: 17.1
57. da Santos, Manuel F. 1969. Projeto Lameiro: Levantamento de reconhecimento de solos. SUDENE—Recife, Brasil Div. Documentacao, Ped. Serie No. 5. 49 pp.
Microfiche: 17.1
58. Viera, L. S., W. H. P. Dos Santos, I. C. Falesi, and J. P. S. O. Filho. 1967. Levantamento de reconhecimento dos solos da Regiao Bragantina, Estado do Para. Pesquisa Agropecuaria Brasileira 2:1-63.
Microfiche: 17.1
59. Vieira, L. S., and W. H. dos Santos. 1962. Contribucao ao estudo dos solos de Breves. Inst. de Pesquisas e Experimentacao Agropecuarias do Norte (IPEAN), Belem, Para, Brasil. Boletim Tecnico 42:33-55.
Microfiche: 17.1
60. da Santos, M. F. 1971. Area sub influencia do acude Arasas. Levantamento do reconhecimento de solos. SUDENE, Recife, Brasil. Pedologia #6. 57 pp.
Microfiche: 17.1
61. Obeng, H. B. 1963. Soils of the Seilo-Tuni land planning area, Wala District, near Wa, Upper Region. Ghana Academy of Science, Agricultural Resource Institute, Kumasi, Ghana. Tech Rep. 62. 196 pp.
Microfiche: 18.1
62. Sukwong, S., L. Chantanaparb, U. Kutintara, P. Sahunalu, S. Pongumphai, B. Thaiutsa, S. Thammincha, S. Siripatanadilok, and W. Kaitpraneet. 1976. Quantitative studies of the seasonal tropical forest vegetation in Thailand. Kasetsart University, Faculty of Forestry, Bangkok, Thailand. Biotrop research project TFR-1 B/C Annual Report 1. 240 pp.
Microfiche: 30.61

63. Sukwong, S., L. Chantanapab, U. Kutintara, P. Sahunalu, S. Pongumphai, B. Thaiutasa, S. Thammincha, S. Siripatanadilok, and W. Kaitpraneet. 1977. Quantitative studies of the seasonal tropical forest vegetation in Thailand. Kasetsart University, Faculty of Forestry, Bangkok, Thailand. Biotrop research project TFR-1 B/C Annual Report 2, 369 pp.
Microfiche: 3.61
64. McLaughlin, J., and F. Harradine. 1965. Soils of western Humboldt County, California. Department of Soils & Plant Nutrition, University of California, Davis, CA. 84 pp. + maps.
Microfiche: 30.23
65. McLaughlin, J., and F. Harradine. 1966. Soils of Coastal Del Norte County, California. Department of Soils & Plant Nutrition, University of California, Davis, CA. 55 pp. + maps.
Microfiche: 30.23
66. Dice, S. F. 1970. The biomass and nutrient flow in a second-growth Douglas-fir ecosystem, a study in quantitative ecology. Dissertation (Ph.D. in Forestry), University of Washington, 165 pp.
Microfiche: 30.23
67. Soil Conservation Service. 1954. Field and laboratory data on some podzolic and associated soils in southeastern United States. USDA Soil Conservation Service, Washington, D.C. Soil Survey Laboratory Memorandum 2. 115 pp.
Microfiche: 30.25
68. Heyward, F., and R. M. Barnette. 1934. Effect of frequent fires on chemical composition of forest soils in the longleaf pine region. University of Florida Agricultural Experiment Station, Gainesville, Florida, Bulletin 265. 39 pp.
Microfiche: 30.24
69. Ahn, P. M. 1970. West African Soils. Oxford University Press. 334 pp.
Microfiche: 30.40
70. Leguizamo, A. 1979. Ongoing forestry in the Bajo Calima Buenaventura, Colombia. pp. 130-134. IN Proceedings of Workshop on Agroforestry Systems in Latin America. Centro Agronomico Tropical de Investigacion y Ensenanza. Turrialba, Costa Rica.
Microfiche: 30.40
71. Kellogg, C. E., and I. J. Nygard. 1951. Exploratory study of the principal soil groups in Alaska. USDA Agricultural Research Administration, Washington, D.C., Agriculture Monograph 7. 138 pp.
Microfiche: 30.28
72. Alexander, L. T., and J. G. Cady. 1962. Genesis and hardening of laterite in soils. USDA Soil Conservation Service, Washington, D.C., Tech. Bull. 1282. 90 pp.
Microfiche: 30.41
73. Ivanova, E. N. and E. V. Semina. 1957. Soils of the isolated pine forests in Kazakhstan. Pochvovedenie 9:10-19. U.S. Department of Commerce Office Technical Services Translation. OTS 61-11497.
Microfiche: 30.31
74. Crossley, D. I. 1951. The soils of the Kananaskis Forest Experiment Station in the sub-alpine forest region in Alberta. Canada Forest Service, Ottawa. Silvicultural Research Note 100. 32 pp.
Microfiche: 30.27

75. Tschinkel, H. M. 1972. Growth, site factors and nutritional status of *Cupressus lusitanica* plantations in the highlands of Colombia. Doctoral dissertation, Hamburg University, 167 pp.
Microfiche: 30.42
76. Cuanalo de la Cerda, H. E. 1964. Suelos del campo experimental forestal "El Tormento," Campeche. Mexico Instituto Nacional de Investigaciones Forestales, Mexico, D. F., Boletin Tecnico No. 15. 32 pp.
Microfiche: 30.42
77. de Oliveira, J. B. de, J. R. F. Menk, and C. L. Rotta. 1975. Solos do Parque Estadual de Campos do Jordao. Silv. Sao Pulo 9:125-156.
Microfiche: 3.50
78. Feustel, I. C., A. Dutilly, and M. S. Anderson. 1939. Properties of soils from North American arctic regions. Soil Sci. 48:183-199.
Microfiche: 30.18
79. Yadav, J. S. P. 1968. Physico-chemical characteristics of some typical soils of Indian forests. Indian Forester 94:85-98.
Microfiche: 30.63
80. Bennett, H. H., and R. V. Allison. 1928. The soils of Cuba. Tropical Plant Research Foundation, Washington, D.C. 410 pp.
Microfiche: 30.42
81. Raychaudhuri, S. P., R. R. Agarwal, N. R. Datta Biswas, S. P. Gupta, and P. K. Thomas. 1963. Soils of India. Indian Council of Agricultural Research, New Delhi. 496 pp.
Microfiche: 30.63
82. EMBRAPA. 1975. Mapa esquematico dos solos das regioes norte, meio-norte e centro-oeste do Brasil. Brasil Departamento Nacional de Pesquisa Agrpecuaria, Divisao de Pesquisa Pedologica, Rio de Janeiro. Boletim tecnico no. 17. 553 pp. + map.
Microfiche: 30.50
83. Ugolini, F. C., R. E. Reanier, G. H. Rau, and J. I. Hedges. 1981. Pedological, isotopic, and geochemical investigations of the soils at the boreal forest and alpine tundra transition in northern Alaska. Soil Sci. 131:359-373.
Microfiche: 30.19
84. Day, J. H. 1968. Soils of the Upper Mackenzie Area, Northwest Territories. Research Branch, Canada Department of Agriculture. ____ 78 pp.
Microfiche: 30.29
85. Day, J. H. 1966. Reconnaissance soil survey of the Liard River Valley. Canada Department of Agriculture, Research Branch, Ottawa. 71 pp.
Microfiche: 30.29
86. Soil Survey Staff. 1975. Soil taxonomy: a basic system of soil classification for making and interpreting soil surveys. USDA Soil Conservation Service, Washington, D.C. Agriculture Handbook 436. 754 pp.
Microfiche: 30.70
87. Hesse, P. R. 1957. Sulphur and nitrogen changes in forest soils of East Africa. Plant Soil IX(1):86-96.
Microfiche: 30.43

88. Stanley, S. R., and E. J. Ciolkosz. 1981. Classification and genesis of spodosols in the central Appalachians. *Soil Sci. Soc. Am. J.* 45:912-917.
Microfiche: 30.71
89. Foscolos, A. E., and H. Kodama. 1981. Mineralogy and chemistry of arctic desert soils on Ellef Ringnes Island, Arctic Canada. *Soil Sci. Soc. Am. J.* 45:987-993.
Microfiche: 30.181
90. Dabral, B. G., and S. K. Pande. 1980. Soil moisture regime under forest plantations. *Indian For. Records (new series)* 3:1. 46 pp.
Microfiche: 30.64
91. Kubota, S. and T. Inoue. 1952. Soils of the Ohdochi National Forest. pp. 69-121 in *Forest Soils of Japan*. Government Forest Experiment Station, Meguro, Tokyo, Japan. Report 2.
Microfiche: 30.44
92. Moriyama, I., K. Sato, and K. Ishizawa. 1952. Soils of the Higashikanabara and Hayadegawa National Forests. pp. 23-28. IN *Forest Soils of Japan*. Report 2. Government Forest Experiment Station, Meguro, Tokyo, Japan.
Microfiche: 30.44
93. Yamamoto, T. 1962. Relationship between soil properties and growth of Todo fir (*Abies mayriana* M.&K.). pp. 157-233. IN *Forest Soils of Japan*. Government Forest Experiment Station, Meguro, Tokyo. Report no. 12.
Microfiche: 30.44
94. Soil Conservation Service. n.d. Soil profile descriptions and analyses in Washington State. mimeo, unpagued.
Microfiche: 30.72
95. Soil Conservation Service. 1958. Lincoln Soil Survey Laboratory report for selected soil samples (1957) from Spokane County, Washington. USDA Soil Conservation Service, Soil Survey Laboratory, Lincoln, Nebraska. 6 pp. + tables.
Microfiche: 30.72
96. Soil Survey Laboratory Staff. 1964. Riverside Soil Survey Laboratory report for soils from Clark County, Washington, sampled in 1959 and 1960. USDA Soil Conservation Service, Soil Survey Laboratory, Riverside, Calif. RSL-64-1.
Microfiche: 30.72
97. Bjorlykke, K. O. 1928. Soil types and soil profiles in Norway. pp. 223-269. IN: *Proceedings First International Congress on Soil Science*, Washington, D.C., Commission V.
Microfiche: 30.90
98. Griffith, B. G., E. W. Hartwell, and T. E. Shaw. 1930. The evolution of soils as affected by the old field white pine-mixed hardwood succession in central New England. *Harvard Forest Bulletin* 15. 82 .
Microfiche: 30.90
99. Shoji, S., Y. Fujiwara, I. Yanada, and M. Saigusa. 1982. Chemistry and clay mineralogy of ando soils, brown forest soils, and podzolic soils formed from recent Towada ashes, northeastern Japan. *Soil Sci.* 133:69-86.
Microfiche: 30.44
100. Kawada, H., and M. Takami. 1957. A study on correlations between chemical properties and types of forest soil. pp. 81-124 IN: *Toykyo Government Forestry Experiment Station, Meguro, Forest Soils of Japan Report 8*.
Microfiche: 30.44

101. Mashimo, Y., Hashimoto, N., and K. Miyagawa. 1958. Soil conditions related to the growth of Sugi and Hinoki. pp. 13-44 In: Tokyo Govt. For. Exp. Sta. Meguro, Forest Soils of Japan Report 9.
Microfiche: 30.44
102. Rowe, R. K. 1967. A study of the land in the Victorian Catchment of Lake Hume. Soil Conservation Authority, Melbourne, Victoria, Australia. 219 pp. + map.
Microfiche: 30.45
103. Tarnocai, C. and S. C. Zoltai. 1978. Soils of Northern Canadian peatlands: their characteristics and stability. pp. 433-448 In: Youngberg, C. T. (ed.). 1978. Forest Soils and Land Use. Proceedings, Fifth North American Forest Soils Conf., Fort Collins, Colorado. Dept. of Forest & Wood Science, Colorado State Univ., Fort Collins. Colo.
Microfiche: 30.90
104. Chofre, E. M. 1951. Analisis de suelos forestales Espanoles. Instituto forestal de investigaciones y experiencias, Madrid. Boletin 55. 91 pp.
Microfiche: 30.36
105. Hill, D. E. and A. D. Shearin. 1969. The Charlton soils. Conn. Agr. Exp. Sta. Bull. 706. 50 pp.
Microfiche: 30.231
106. Caldas, E. F., Tejedor Salguero, M. I., and P. Quantin. 1982. Suelos de regiones volcanicas Tenerife Islas Canarias. Sec. de Publicaciones de la Universidad de la Laguna, Santa Cruz de Tenerife, Canary Islands. 250 pp.
Microfiche: 30.34
107. Caldas, E. F., and M. Tejedor Salguero. 1975. Andosoles de las Islas Canarias. Sec. de Publicaciones, Univ. de la Laguna, Santa Cruz de Tenerife, Islas Canarias. 210 pp.
Microfiche: 30.34
108. Bonani, S. 1980. Aspetti selvicoltura del Boso Olme di Cessalto (TV). Att. del ist de Ecol. e Selv. Univ. Padova II:26-63.
Microfiche: 30.32
109. Susmel, L. 1981. Ricerche idrologiche comparate in ecosistemi di foresta e di prateria. Atti del ist. di Ecol. e Selv. Univ. Padova II(4):161-225.
Microfiche: 30.32
110. Muckenhausen, E. 1962. Entstehung, Eigenschaften und Systematik der Boden der Bundesrepublik Deutschland. Verlag GMBH Frankfurt A.M. 148 pp. + 60 plates.
Microfiche: 30.33
111. de Bakker, H. 1979. Major soils and soil regions in the Netherlands. Centre for Agricultural Publishing and Documentation, Wageningen, the Netherlands, and Dr. W. Junk, B. V. Publishers, The Hague, the Netherlands. 203 pp.
Microfiche: 30.35
112. Lepoutre, B. and A. Sauvageot. 1969. Pedogenese et vocation forestiere des sls sur marnes miocenes de la region de Fes. Annales de la Recherche Forestiere au Maroc 11:121-118.
Microfiche: 30.48
113. Durand, R. 1969. Etude pedologique de la forest du Rmel. Annales de la Recherche Forestiere au Maroc 11:119-150.
Microfiche: 30.48

114. Durand, R. 1969. Etude pedologique du perimetre de Bou Daroua. *Annales de la Recherche Forestiere au Maroc* 11:151-200.
Microfiche: 30.48
115. Lang, A., Sanchez, R., and X. Sanchez. 1980. La vegetacion y los suelos de un transect altitudinal declive occidental del Iztaccihuatl (Mexico). *Inst. Nacional de Investigaciones Forestales, Mexico. Bol. Tech.* 65. 64 pp.
Microfiche: 30.46
116. Binkley, D. 1983. Ecosystem production in Douglas-fir plantations: interaction of red alder and site fertility. *Forest Ecology and Management* 5:215-227.
Microfiche: 30.231
117. Bringmark, L. 1980. Ion leaching through a podsol in a Scots pine stand. *in: Persson, T. (ed.) 1980. Structure and function of northern coniferous forests—an ecosystem study. Ecol. Bull. (Stockholm)* 32:341-361.
118. Persson, T., Baath, E., Clarholm, M., Lundkvist, H., Soderstrom, B. E. and B. Sohlenius. 1980. Trophic structure, biomass dynamics and carbon metabolism of soil organisms in a Scots pine forest. *in: Persson, T. (ed.) 1980. Structure and function of northern coniferous forests—an ecosystem study. Ecol Bull. (Stockholm)* 32:419-459.
119. Moormann, F. R., Varley, J. A., Baker, R. M., Baker, K. F., Hughes, J. C., and G. Brown. 1981. Profile locations, descriptions, and analyses. *in: Greenland, D. J. (ed.) 1981. Characterization of soils in relation to their classification and management for crop production; examples from some areas of the humid tropics. Oxford University Press, New York.* pp. 284-421.
Microfiche: 30.47
120. Koopmans, T. T. and J. P. Andriessse. 1982. Baseline study monitoring project of nutrient cycling in shifting cultivation Vanathavillu, Sri Lanka and Semongok (Sarawak), Malaysia. *Koninklijk Instituut voor de Tropen, Amsterdam. Internal Report BO 82-6.* 74 pp.
Microfiche: 30.65
121. Vepraskis, M. J. and L. P. Wilding. 1983. Deeply weathered soils in the Texas Coastal Plain. *Soil Sci. Soc. Am. J.* 47:293-300.
122. Yvon, B. and N. Z. Jalil. 1980. Semi-detailed soil survey of Manis-Verus and Telemong-Dingin area. *Malaysia Ministry of Agriculture, Soils and Analytical Services, Division of Agriculture. Soil Survey Report No. 12.*
Microfiche: 30.66
123. van der Eyk, J. J., Maeviear, C. N., and J. M. de Villiers. 1969. Soils of the Tugela Basin. *Town and Regional Planning Commission, Natal.* 263 pp.
Microfiche: 30.49